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SERVICE MANUAL

Stereo Cassette Deck

K-92

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Contents

Specifications

Power Source	AC 220/240V (50/60Hz)
Tape Speed (MTT-111)	4.75cm/sec. +3%, − 2%
Wow & Flutter (MTT-111, JIS WRMS)	≦ 0.11%
FF/REW Time (C-60)	≦ 105 sec.
Frequency Response (Playback, ± 4dB)	Normal : 40Hz~14kHz
	CrO2 : 40Hz~16kHz
	Metal : 40Hz~16kHz
S/N Ratio (Over all JIS Weighted "A" curve)	Dolby NR-OFF : Normal ≧ 50dB, CrO2/Metal ≧ 52dB
	Dolby NR-B : Normal/CrO2/Metal ≧ 57dB
	Dolby NR-C : Normal/CrO2 ≧ 63dB, Metal ≧ 65dB
Input Sensitivity	Line ≦ 100mV
Output Level at 0dB playback	Line : 500mV ± 1.5dB/47k ohm
	Headphone ≦ 100mV/8 ohm
Distortion 3rd (0dBm input at 333Hz)	Normal : ≦ 2.5%
	CrO2/Metal : ≦ 3%
Semi-Conductors	14 IC's, 49 Transistors, 14 Diodes, 2 Zener Diodes, 17 LED's
Chassis Dimensions	438(W) x 100(H) x 250(D) mm
Weight	3.8 kg

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Parts Locations and Disassembly Instructions

Figure 1

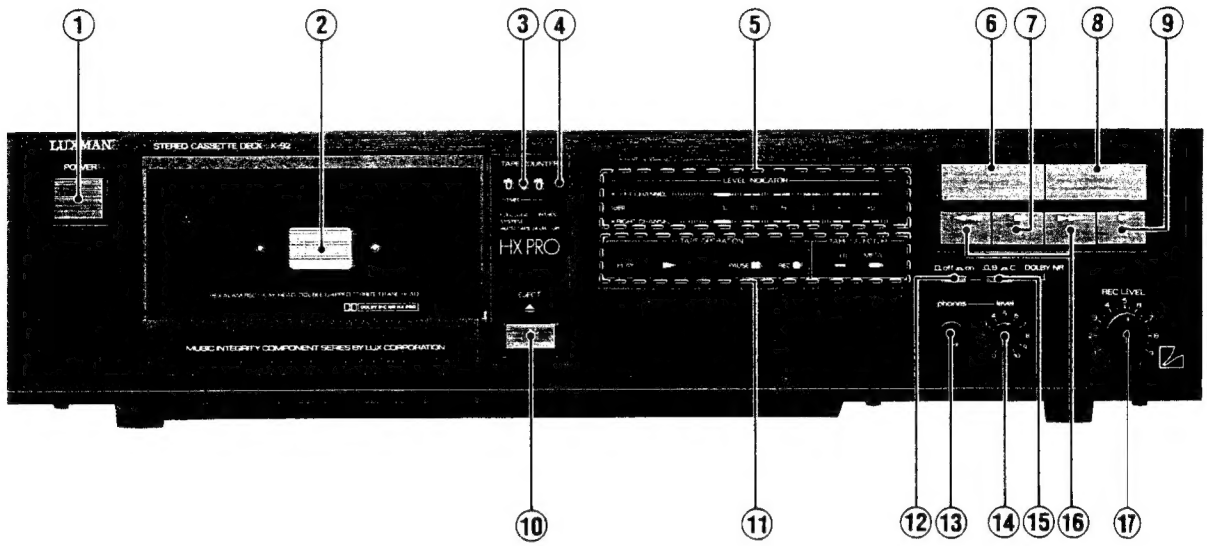
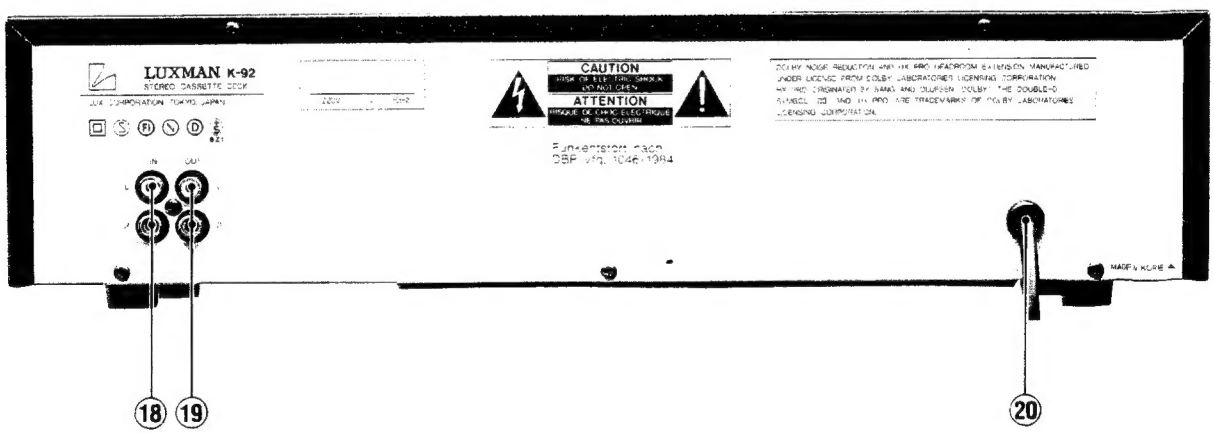
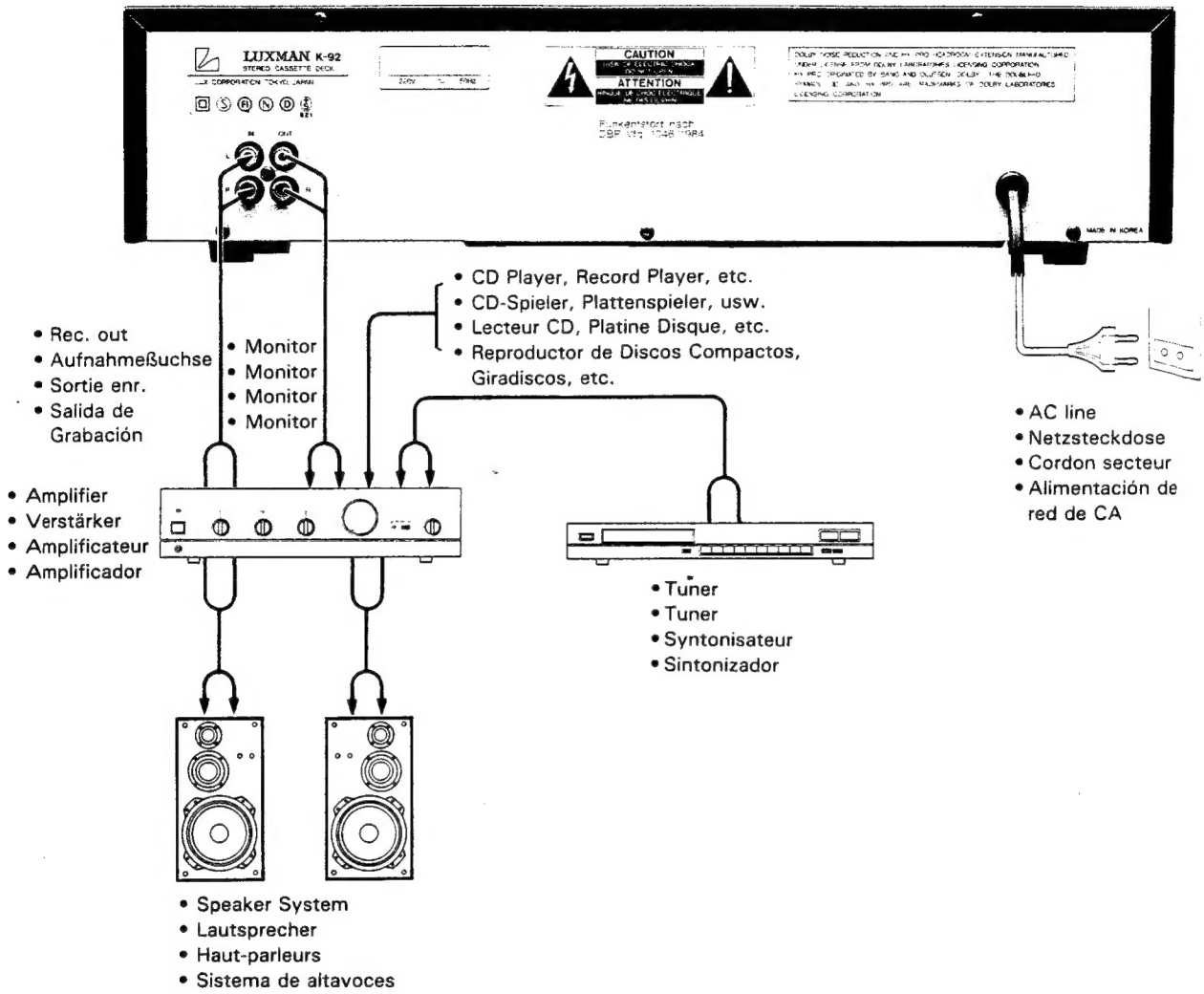


Figure 2



1. Power Botton
2. Cassette Door
3. Tape Countor
4. Tape Countor Reset Button
5. Level Indicators
6. Play Button (▶)
7. Stop Button (■)
8. Pause Button (▮▮)
9. Record Button (●)
10. Eject Button (▲)
11. Function Indicators
12. Dolby NR ON/OFF Button
13. Phones Jack
14. Level Control Knob
15. Dolby NR Select (B/C) Button
16. Fast Forward and Rewind Button
17. Rec Level Control Knob
18. Input Jacks
19. Output Jacks
20. AC Power Cord

Figure 3


LUXMAN K-92
STEREO CASSETTE DECK
CAUTION
ATTENTION
MADE IN KOREA
• Rec. out
• Aufnahmeßuchse
• Sortie enr.
• Salida de Grabación
• Monitor
• Monitor
• Monitor
• Monitor
• CD Player, Record Player, etc.
• CD-Spieler, Plattenspieler, usw.
• Lecteur CD, Platine Disque, etc.
• Reproductor de Discos Compactos, Giradiscos, etc.
• AC line
• Netzsteckdose
• Cordon secteur
• Alimentación de red de CA
• Amplifier
• Verstärker
• Amplificateur
• Amplificador
• Tuner
• Tuner
• Syntonisateur
• Sintonizador
• Speaker System
• Lautsprecher
• Haut-parleurs
• Sistema de altavoces

1. Removal of Top Cabinet (Figure 4)

(1) Remove four screws marked (A) and four screws marked (B).

(2) Slide off the top cabinet, stretching the both sides slightly outside.

2. Removal of Front Panel (Figure 5)

(1) Remove the top cabinet as shown above.

(2) Disconnect all connectors from the main P.C. Board and the cassette deck.

(3) Turn the unit upside down, and remove four screws marked (C) and three nylon rivets marked (D) from the bottom cabinet.

(4) Remove the front panel by pulling it.

3. Removal of Cassette Deck Mechanism (Figure 6)

(1) Remove the front panel as shown above.

(2) Open the cassette door by pressing the EJECT button.

(3) To remove the cassette deck mechanism, remove the belt from the counter pulley on the mechanism. (Be carefull not to miss the belt.)

(4) Remove four black screws (E) from the cassette deck mechanism.

(5) Remove the cassette deck mechanism from the front panel. Be careful not to miss the slider with spacer and screw (shown by ※ in Figure 6) when removing the mechanism.

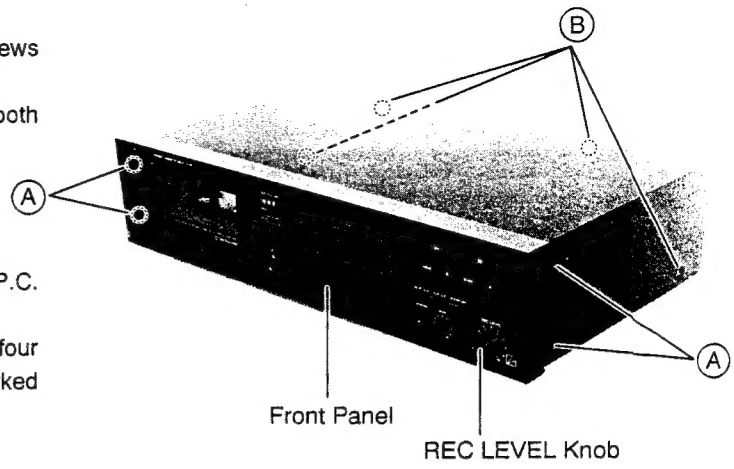


Figure 4

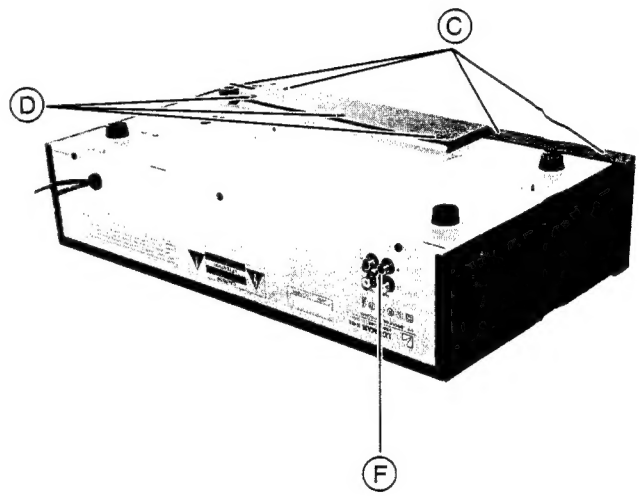


Figure 5

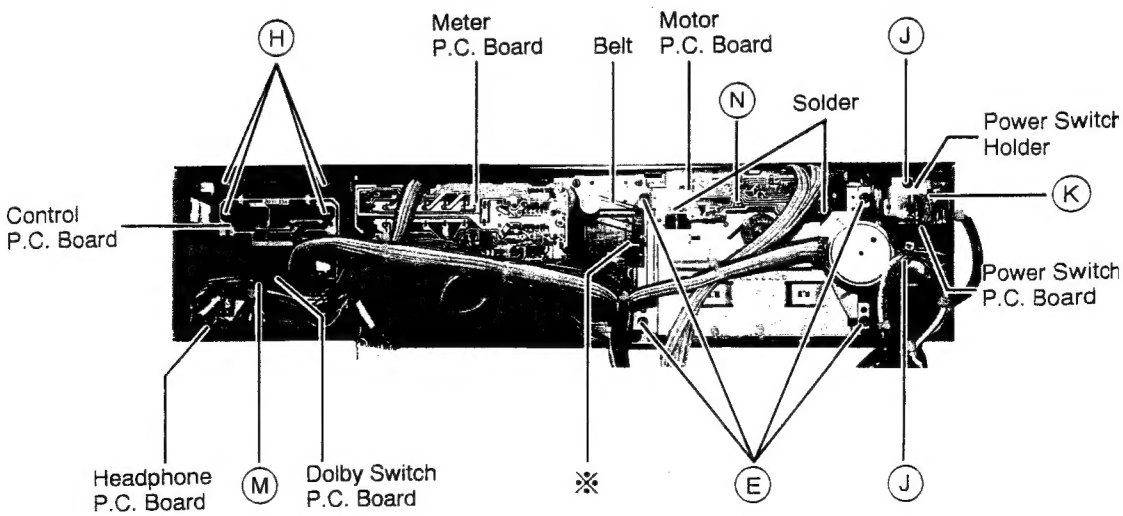


Figure 6

4. Removal of Main P.C. Board (Figures 5 and 7)

(1) Remove the top cabinet.
(2) Disconnect all connectors from the main P.C. Board and the cassette deck.
(3) Remove a screw (F) from the RCA jack section. (Figure 5)
(4) Remove four screws (G) from the P.C. Board. (Figure 7)

5. Removal of Control P.C. Board (Figure 6)

(1) Remove the front panel.
(2) Remove four screws (H) from the P.C. Board.

6. Removal of Power Switch P.C. Board (Figure 6)

(1) Remove the front panel.
(2) Make sure that the power switch is off (not depressed.)
(3) Remove two screws (J) that secure the power switch holder.
(4) Pull the power switch P.C. Board with the holder strongly backward to remove the power switch shaft from the power switch knob.
(5) Remove one screw (K) from the holder.

7. Removal of Dolby Switch P.C. Board (Figure 8)

(1) Remove the front panel.
(2) Remove two screws (L) from the P.C. Board.

8. Removal of Headphone P.C. Board (Figures 4 and 6)

(1) Remove the front panel.
(2) Remove REC LEVEL knob from the front panel by pulling it. (Figure 4)
(3) You will find a nut with a washer in the hole after removing the REC LEVEL knob. Remove the nut and washer.
(4) Remove one screw (M) from the headphone holder. (Figure 6)

9. Removal of Meter P.C. Board (Figure 6)

(1) Remove the front panel.
(2) Remove the P.C. Board by stretching the four detents slightly that secure the P.C. Board to the frame.

10. Removal of Motor P.C. Board (Figures 6 and 7)

(1) Remove the cassette deck mechanism.
(2) Remove three screws (N) from the P.C. Board.
(3) Unsolder the two solenoids and remove the P.C. Board.

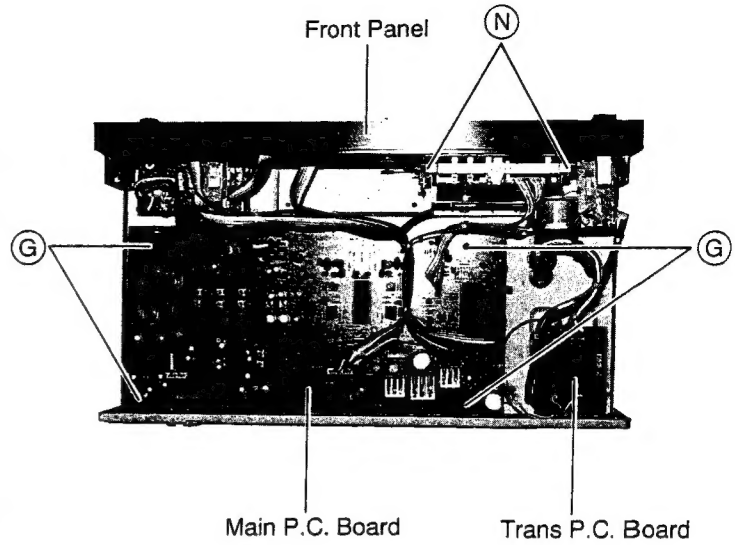


Figure 7

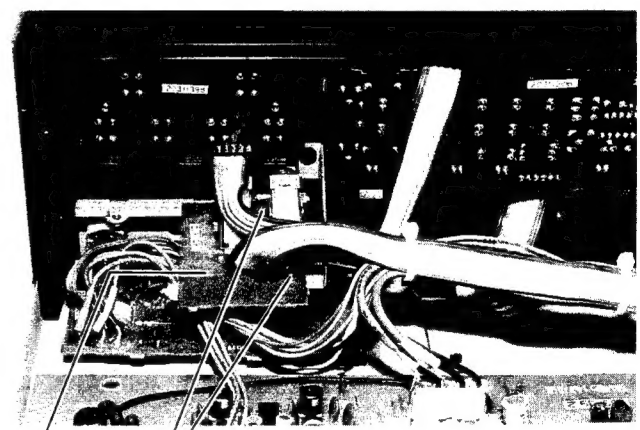
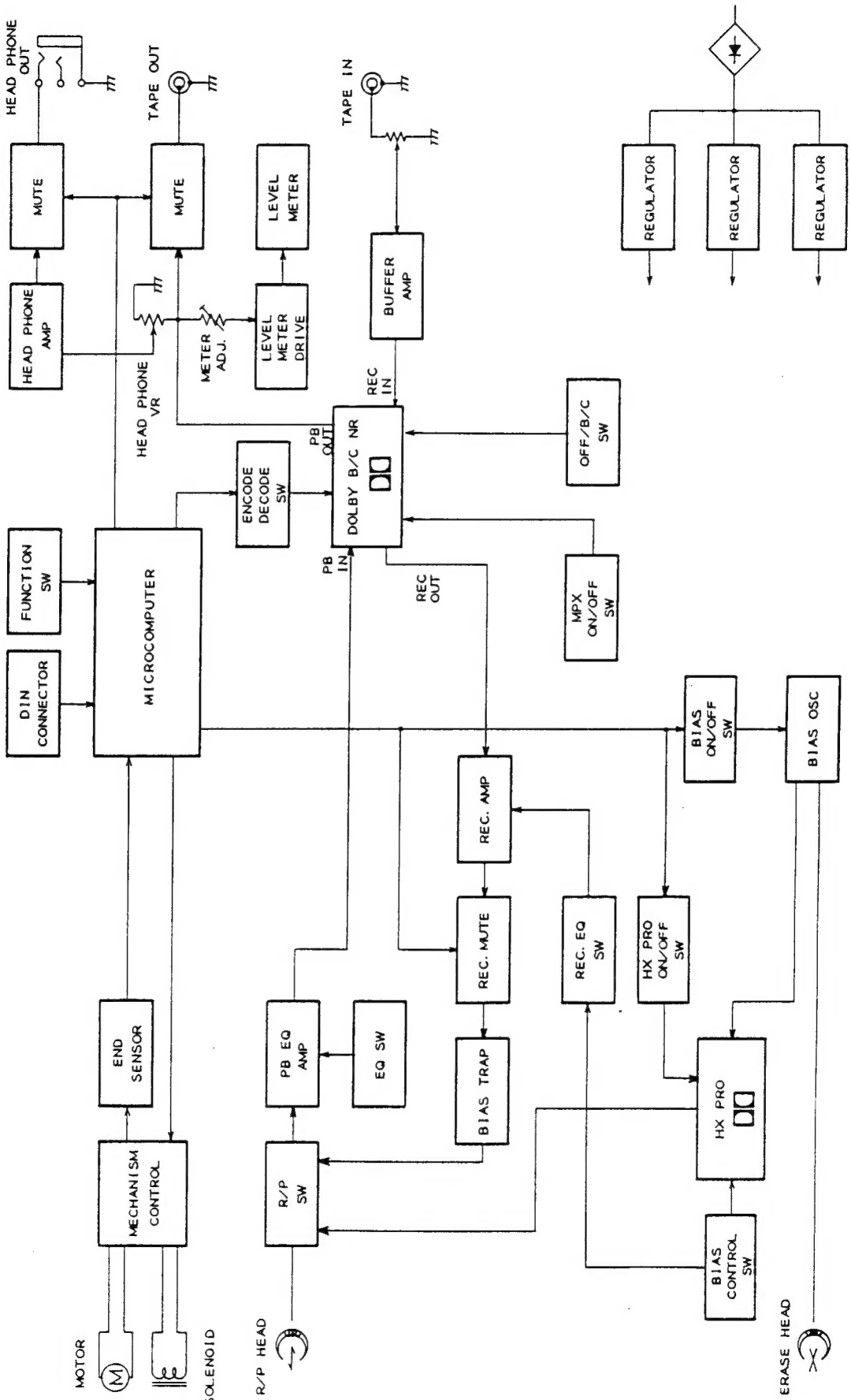


Figure 8

Block Diagram



Adjustment Procedures

TEST EQUIPMENTS

1. VTVM (Vacuum Tube Voltmeter)
2. Signal Generator
3. Resistance Attenuator
4. Screwdriver
5. Frequency Counter
6. Test Tapes
   MTT-111 (Speed 3kHz)
   MTT-114 (Azimuth 10kHz)
   MTT-150 (Dolby 400Hz Modulation)
   AC-223 (Normal Tape : Blank)
   AC-512 (CrO2 Tape : Blank)
   AC-712 (Metal Tape : Blank)

No.	Adjustment Item	Test Value	Test Tape	Rec. Volume Control VR802	Switch Position			Adjustable Parts	Test Point	Input Frequency	Equipment/ Connection	Remarks
					NR	NR B or C	Input					
1	Head Azimuth Adjustment	Maximum	MTT-114	–	OFF	–	–	Adjustment Screw	TAPE OUT	–	VTVM See Fig. 9	Apply lock paint after adjustment.
2	Tape Speed (Normal Speed)	3000 ± 30Hz	MTT-111	–	OFF	–	–	VR845	TAPE OUT	–	Frequency Counter	Check at the halfway point of the tape length.
3	Playback Sensitivity Adjustment	500 ± 10mV	MTT-150	–	OFF	–	–	VR101 (L) VR102 (R)	TAPE OUT	–	See Fig. 10	–
4	Bias Oscillator Frequency Adjustment	105 ± 0.5kHz	AC-223	–	OFF	–	–	L209	HOT : TP-1 GND : TP-2	–	See Fig. 11	Adjust in REC mode.
5	Bias Trap Adjustment	Minimum	AC-223	–	OFF	–	–	Lch L205	HOT : TP-5 GND : TP-7	–	VTVM	Adjust in REC mode.
								Rch L206	HOT : TP-6 GND : TP-7			
6	Bias Current Adjustment	5.2 ± 0.1mV	AC-223	–	OFF	–	–	Lch/Rch VR207/VR208	Lch HOT : TP-1 GND : TP-2	–	VTVM	Adjust in REC mode.
		6.2 ± 0.1mV	AC-512					Lch/Rch VR205/VR206				
		11 ± 0.2mV	AC-712					Lch/Rch VR203/VR204	Rch HOT : TP-3 GND : TP-4			
7	Rec. Level Meter Sensitivity Adjustment	+3dB	AC-223	Maximum	OFF	–	TAPE IN	Lch VR815	Lch HOT : TP-12 GND : TP-14	400Hz	VTVM	Adjust VR815/816 so that the +3dB point (▯▯ mark) on the level meter lights dimly. (Input level at 90mV −1.5dB).
								Rch VR816	Rch HOT : TP-13 GND : TP-14			
8	Rec. Sensitivity Adjustment	160mV ± 0.5dB	AC-223	Maximum	OFF	–	TAPE IN	Lch VR209	Lch HOT : TP-15 GND : TP-7	400Hz	See Fig. 12	Adjust VR209/210 so that TP15-7/16-7 measure 100mV ± 0.5dB. When supply the input level at 90mV, check that TAPE OUT for 500mV ± 40mV.
								Rch VR210	Rch HOT : TP-16 GND : TP-7			
9	Rec./PB Frequency Response Adjustment	0 ± 1dB	AC-223	Maximum	OFF	–	TAPE IN	Lch/Rch VR207/VR208	TAPE OUT	400Hz 10kHz	See Fig. 13	Adjust TAPE OUT for 500mV − 25dB first by resistance attenuator. Then adjust VRs 203-208 so that the rec/play level is 0 ± 1dB.
			AC-512					Lch/Rch VR205/VR206				
			AC-712					Lch/Rch VR203/VR204				
	Measurement Conditions	● Power Supply : AD=220V (50Hz) ● Input : 0dB=1Vrms ● TAPE IN (Signal Generator Output Impedance) : 600 ohms ● TAPE OUT (Load Impedance) : 47k ohms ● HEADPHONE OUT (Load Impedance) : 8 ohms ● Test Point Load Impedance : No load										

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Figure 9 HEAD AZIMUTH ADJUSTMENT

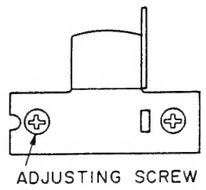

Figure 10 PLAYBACK SENSITIVITY ADJUSTMENT

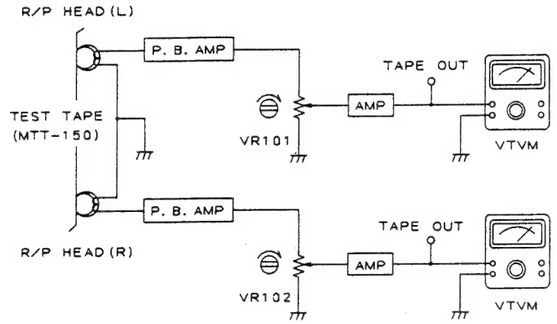

Figure 11 BIAS OSCILLATOR FREQUENCY ADJUSTMENT

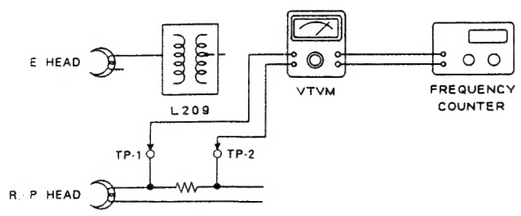

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Figure 12 RECORD SENSITIVITY ADJUSTMENT

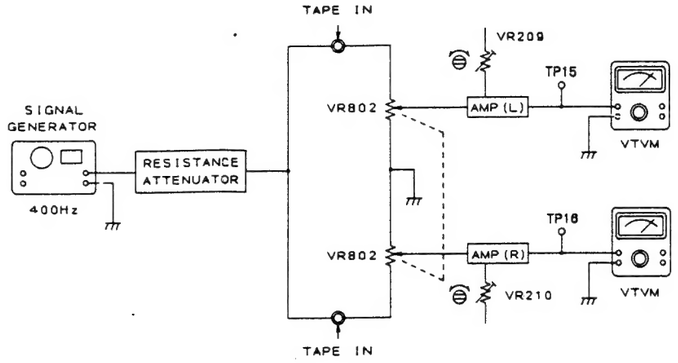
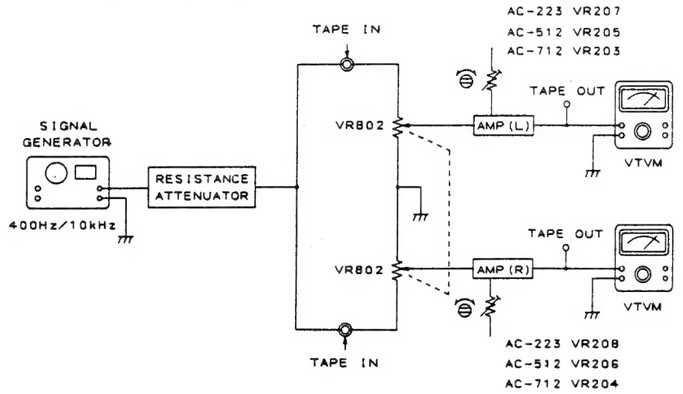
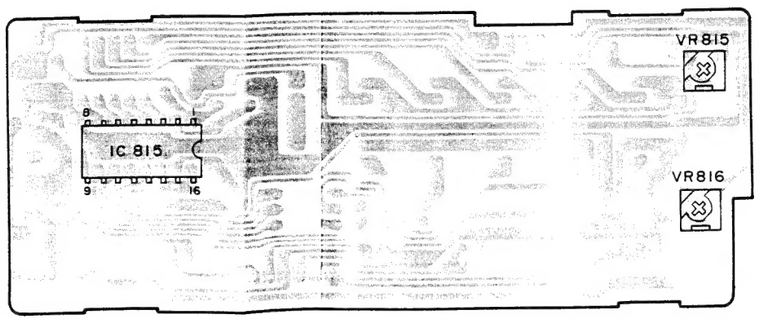


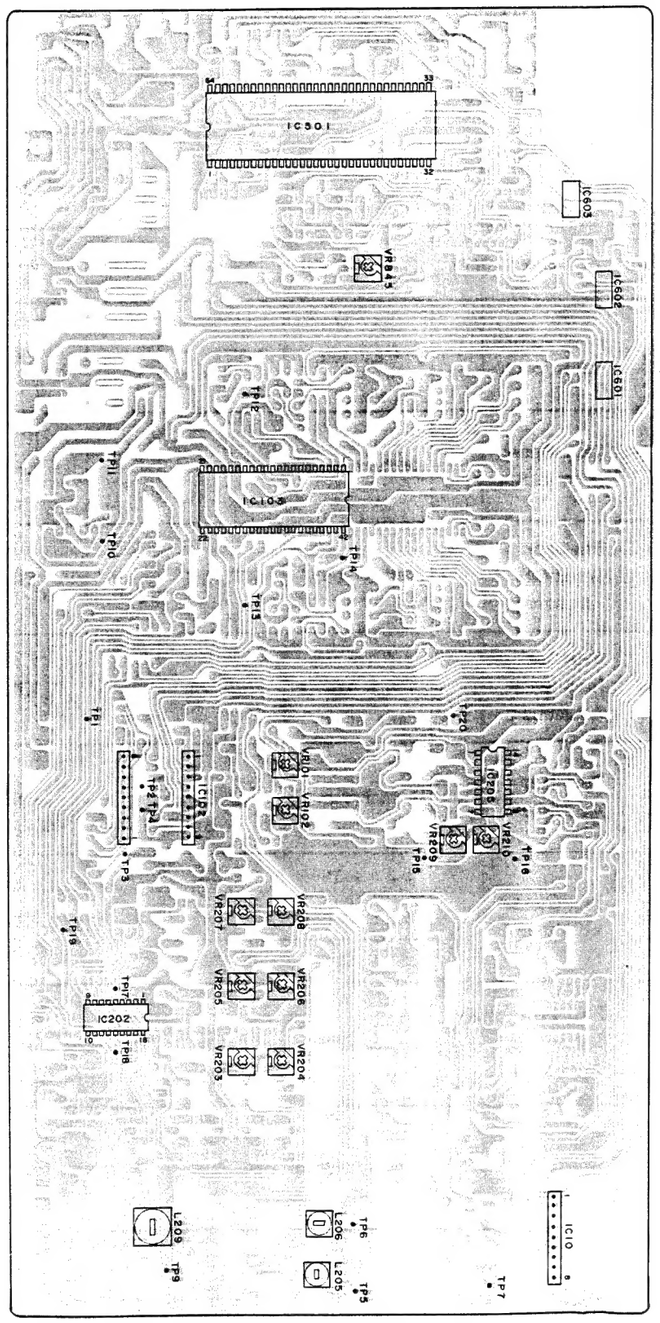
Figure 13 RECORD/PLAYBACK FREQUENCY RESPONSE ADJUSTMENT





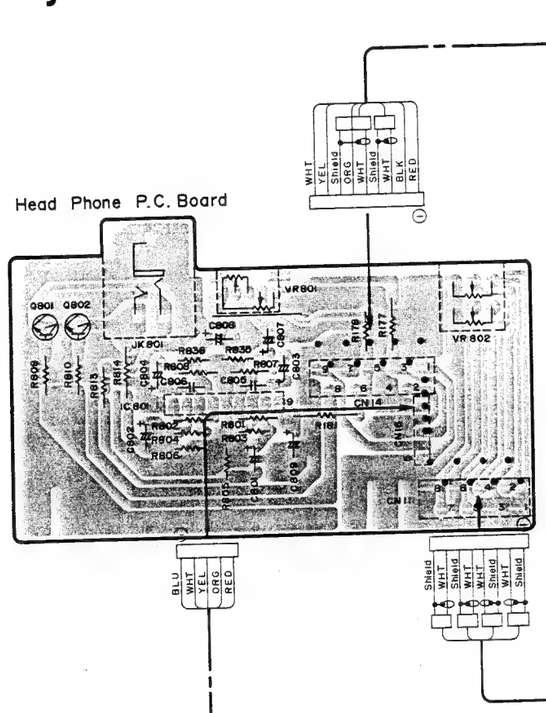
Meter P.C. Board

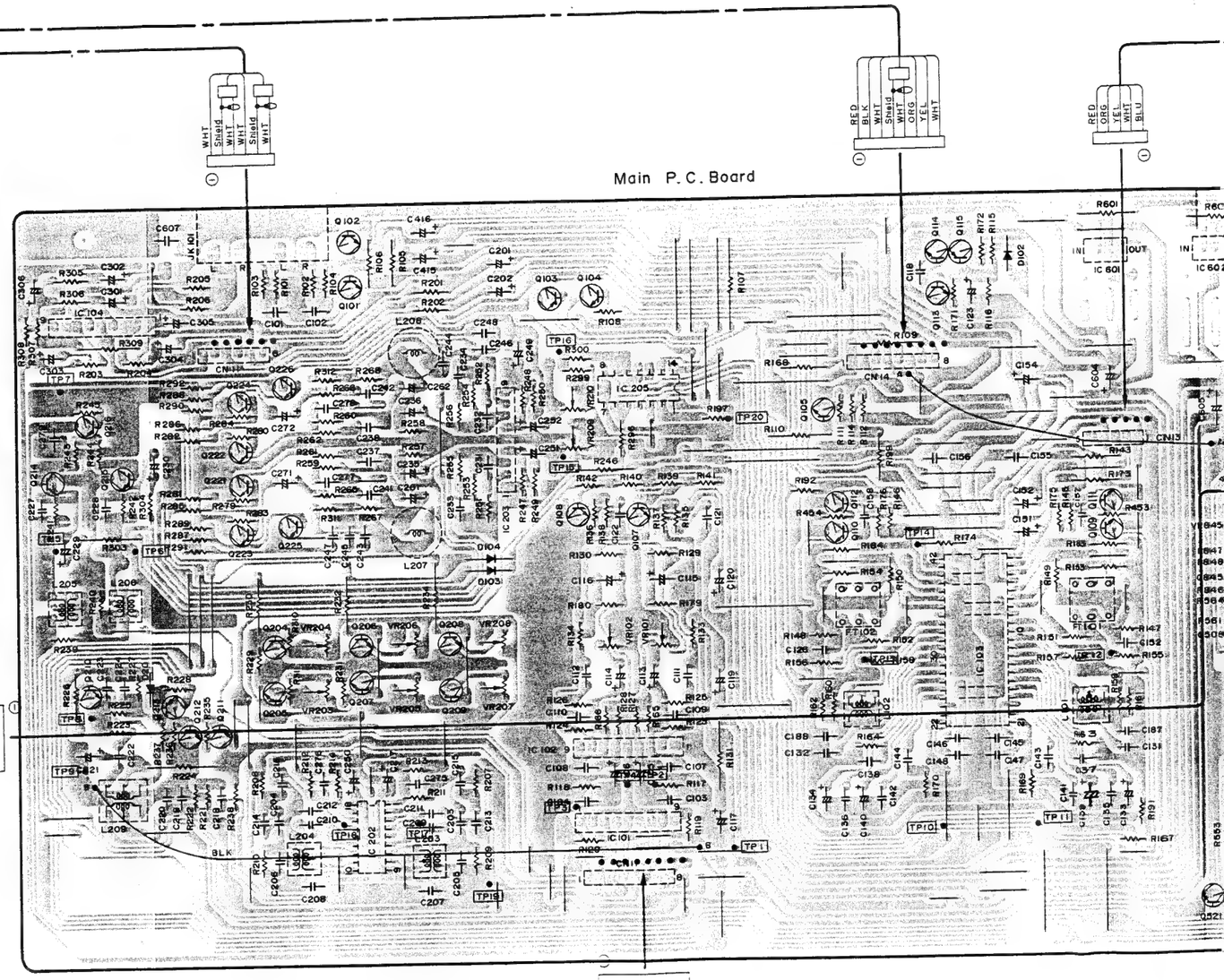
Adjustment Locations

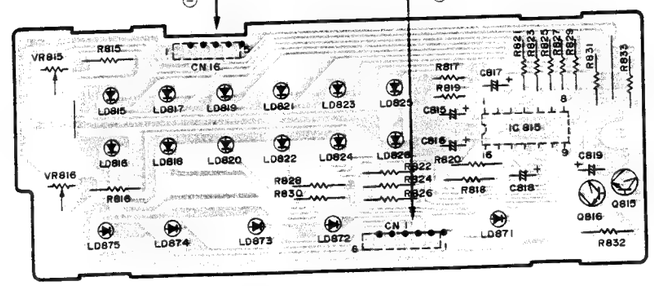


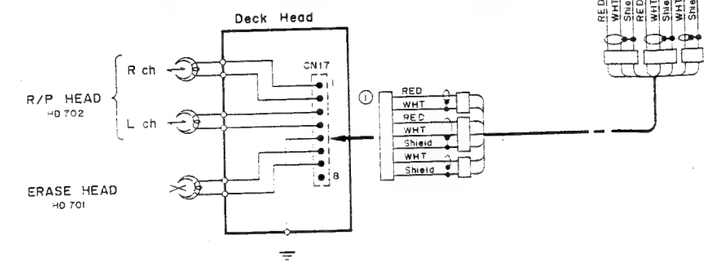
Main P.C. Board

Parts Layout on P.C. Boards and Wiring Diagram









A | B | C | D | E | F | G | H

– 13 – – 14 –

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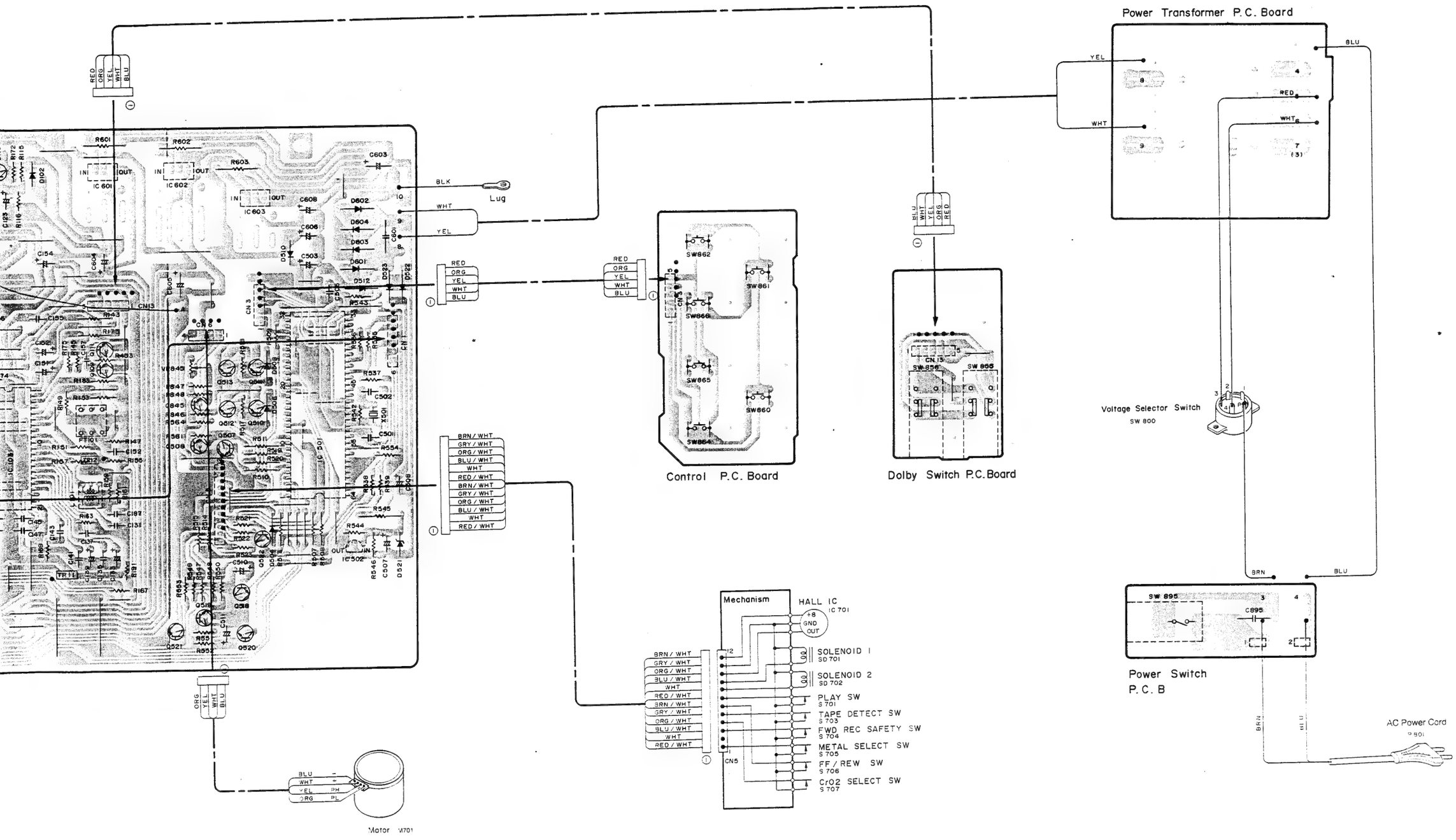
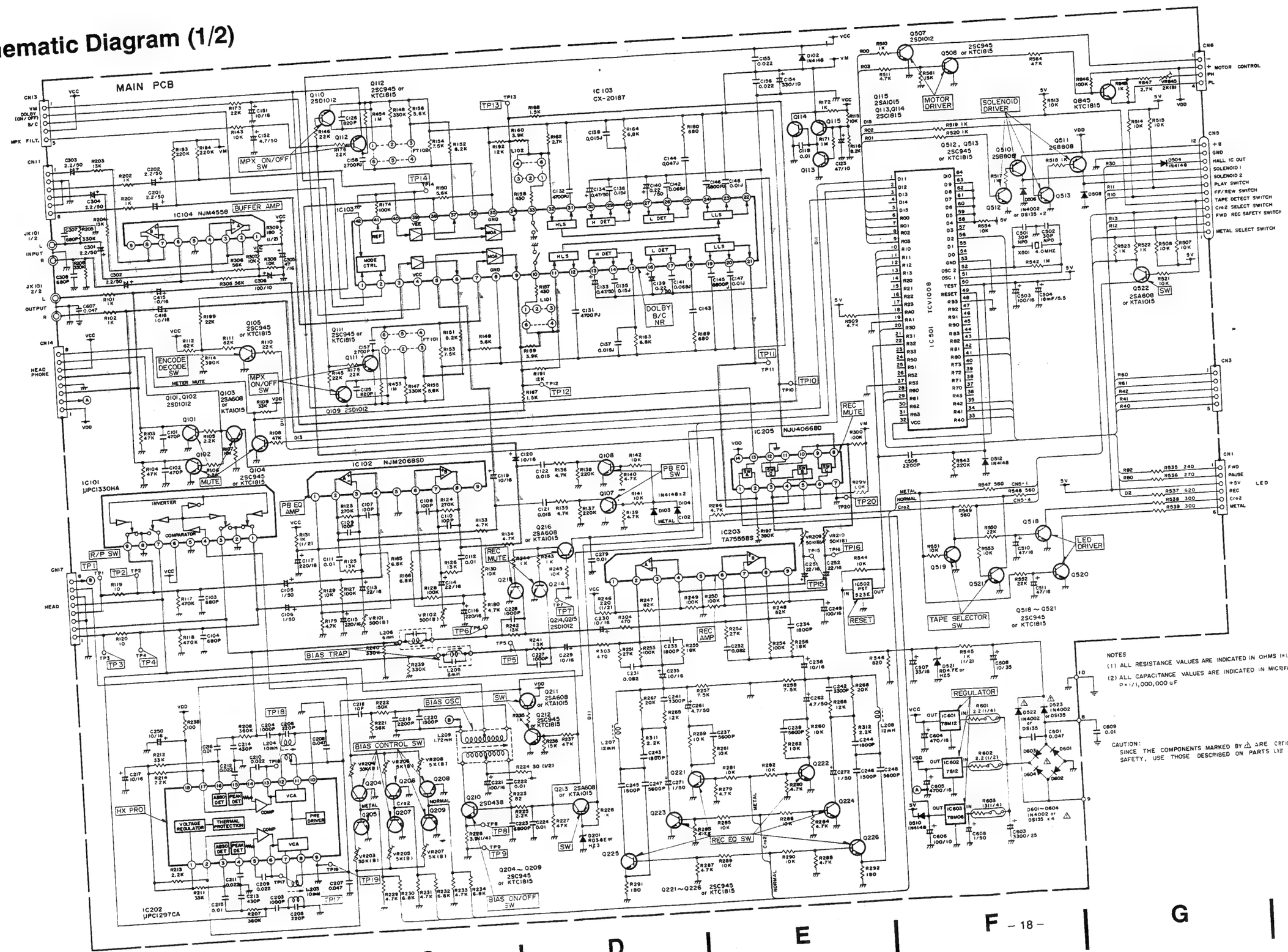

Power Transformer P.C. Board
YEL
WHT
BLU
RED
WHT
Voltage Selector Switch
SW 800
BRN
BLU
SW 895
C895
Power Switch
P.C. B
AC Power Cord
P 501
Control P.C. Board
SW862
SW861
SW866
SW865
SW860
SW864
Dolby Switch P.C.Board
CN13
SW 856
SW 855
RED
ORG
YEL
WHT
BLU
BLK
Lug
BRN / WHT
GRY / WHT
ORG / WHT
BLU / WHT
WHT
RED / WHT
Mechanism
HALL IC
IC 701
+8
GND
OUT
SOLENOID 1
SD 701
SOLENOID 2
SD 702
PLAY SW
S 701
TAPE DETECT SW
S 703
FWD REC SAFETY SW
S 704
METAL SELECT SW
S 705
FF / REW SW
S 706
Cr02 SELECT SW
S 707
CN5
Motor M701

Schematic Diagram (1/2)



IC101	
Pin No.	REC
1	0V
2	0V
3	0V
4	4.4V
5	0V
6	12.0V
7	0V
8	0V
9	0V

IC No.	IC102
Pin No.	
1	7.3V
2	5.6V
3	5.0V
4	4.9V
5	0V
6	4.9V
7	5.0V
8	5.6V
9	7.3V

Pin No.	
1	
2	
3	
4	
5	
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8	
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Pin No.	
1	
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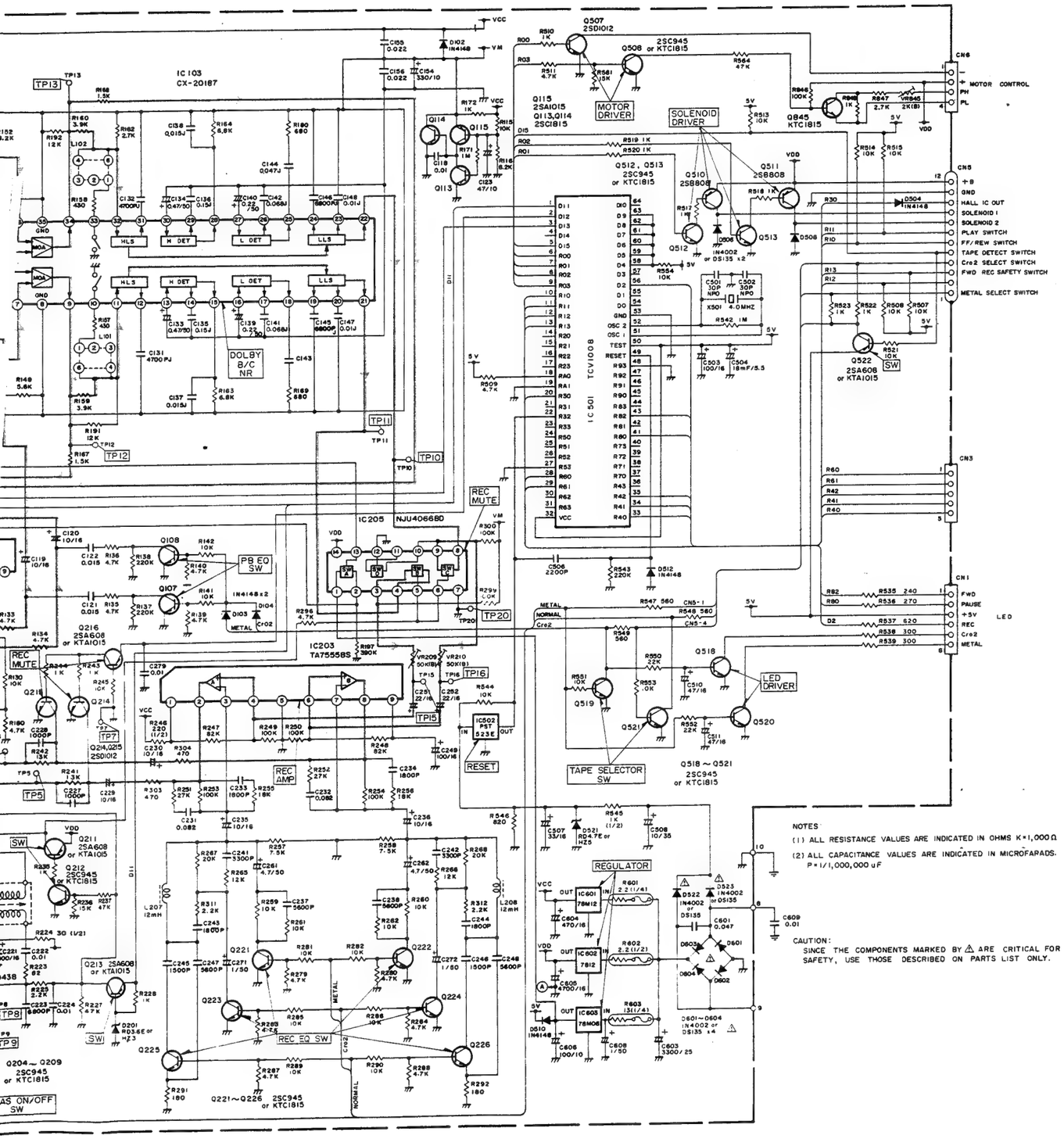

NOTES

(1) ALL RESISTANCE VALUES ARE INDICATED IN OHMS K=1,000Ω

(2) ALL CAPACITANCE VALUES ARE INDICATED IN MICROFARADS. P=1/1,000,000 uF

CAUTION:
SINCE THE COMPONENTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE THOSE DESCRIBED ON PARTS LIST ONLY.

IC101		
Pin No.	REC	Others
1	0V	0V
2	0V	0V
3	0V	0V
4	4.4V	0V
5	0V	0V
6	12.0V	12.0V
7	0V	0V
8	0V	0V
9	0V	0V

IC No. / Pin No.	IC102	IC104	IC203
1	7.3V	11.4V	11.0V
2	5.8V	6.0V	6.0V
3	5.0V	6.0V	6.0V
4	4.9V	5.9V	6.0V
5	0V	0V	0V
6	4.9V	5.9V	6.1V
7	5.0V	6.0V	6.1V
8	5.8V	6.0V	6.1V
9	7.3V	11.4V	11.0V

IC202				
Pin No.	REC Normal	CrO2	Metal	Others
1	4.3V	4.3V	4.3V	4.3V
2	1.3V	1.8V	3.2V	3.2V
3	4.3V	4.3V	4.3V	4.3V
4	1.8V	2.4V	3.7V	0.5V
5	1.3V	1.8V	3.2V	0V
6	3.7V	4.9V	8.9V	8.6V
7	12.0V	12.0V	11.9V	0V
8	12.0V	12.0V	11.9V	0V
9	0V	0V	0V	0V
10	1.8V	1.8V	1.7V	1.8V
11	12.0V	12.0V	11.9V	0V
12	12.0V	12.0V	11.9V	0V
13	3.3V	4.3V	8.7V	8.6V
14	1.4V	1.8V	3.3V	0V
15	1.9V	2.4V	3.8V	0.8V
16	4.3V	4.3V	4.3V	4.3V
17	1.4V	1.8V	3.4V	3.4V
18	11.0V	11.0V	10.6V	10.0V

IC103				
Pin No.	Dolby off	Dolby B	Dolby C	REC
1	12.0V	12.0V	6.0V	12.0V
2	12.0V	6.0V	6.0V	12.0V
3	6.0V	6.0V	6.0V	6.0V
4	12.0V	12.0V	12.0V	12.0V
5	6.0V	6.0V	6.0V	6.0V
6	6.0V	6.0V	6.0V	6.0V
7	6.0V	6.0V	6.0V	6.0V
8	6.0V	6.0V	6.0V	6.0V
9	6.0V	6.0V	6.0V	6.0V
10	6.0V	6.0V	6.0V	6.0V
11	6.0V	6.0V	6.0V	6.0V
12	6.0V	6.0V	6.0V	6.0V
13	0.2V	0.3V	0.3V	0.2V
14	0.2V	0.3V	0.3V	0.2V
15	6.0V	6.0V	6.0V	6.0V
16	0.2V	0.2V	0.3V	0.2V
17	0.2V	0.2V	0.3V	0.2V
18	6.0V	6.0V	6.0V	6.0V
19	6.0V	6.0V	6.0V	6.0V
20	6.0V	6.0V	6.0V	6.0V
21	6.0V	6.0V	6.0V	6.0V
22	6.0V	6.0V	6.0V	6.0V
23	6.0V	6.0V	6.0V	6.0V
24	6.0V	6.0V	6.0V	6.0V
25	6.0V	6.0V	6.0V	6.0V
26	0.2V	0.2V	0.3V	0.2V
27	0.2V	0.2V	0.3V	0.2V
28	6.0V	6.0V	6.0V	6.0V
29	0.2V	0.3V	0.3V	0.2V
30	0.2V	0.3V	0.3V	0.2V
31	6.0V	6.0V	6.0V	6.0V
32	6.0V	6.0V	6.0V	6.0V
33	6.0V	6.0V	6.0V	6.0V
34	6.0V	6.0V	6.0V	6.0V
35	6.0V	6.0V	6.0V	6.0V
36	6.0V	6.0V	6.0V	6.0V
37	6.0V	6.0V	6.0V	6.0V
38	6.0V	6.0V	6.0V	6.0V
39	0V	0V	0V	0V
40	6.0V	6.0V	6.0V	6.0V
41	1.3V	1.3V	1.3V	1.3V
42	10.3V	10.3V	10.3V	5.6V

IC501					
Pin No.	PLAY	REC	Pin No.	PLAY	REC
1	0V	4.5V	33	5.1V	5.1V
2	5.0V	0V	34	5.1V	5.1V
3	5.0V	5.0V	35	5.1V	5.1V
4	0V	0V	36	0V	0V
5	0V	0V	37	0V	0V
6	4.1V	4.1V	38	0V	0V
7	0V	0V	39	0V	0V
8	0V	0V	40	0V	0V
9	0V	0V	41	3.7V	3.7V
10	5.1V	5.1V	42	0V	0V
11	0V	0V	43	0.4~3.6V	0.4~3.6V
12	5.1V	5.1V	44	0V	0V
13	0V	0V	45	5.1V	5.1V
14	0V	0V	46	5.1V	5.1V
15	0V	0V	47	5.1V	5.1V
16	0V	0V	48	0V	0V
17	0V	5.1V	49	0V	0V
18	5.1V	5.1V	50	5.1V	5.1V
19	0V	0V	51	2.2V	2.2V
20	0.5~5.1V	0.5~5.1V	52	2.2V	2.2V
21	5.1V	5.1V	53	0V	0V
22	4.8V	4.8V	54	5.1V	5.1V
23	5.1V	5.1V	55	5.1V	5.1V
24	5.1V	5.1V	56	5.1V	0.2V
25	5.1V	5.1V	57	5.1V	5.1V
26	5.8V	5.1V	58	5.1V	5.1V
27	0V	0V	59	5.1V	5.1V
28	0V	0V	60	5.1V	5.1V
29	0V	0V	61	5.1V	5.1V
30	0V	0V	62	5.1V	5.1V
31	0V	0V	63	5.1V	5.1V
32	5.1V	5.1V	64	0V	0V

IC205		
Pin No.	REC	Others
1	5.9V	5.9V
2	0V	0V
3	6.1V	6.0V
4	6.1V	6.0V
5	12.0V	0V
6	12.0V	0V
7	0V	0V
8	6.1V	6.1V
9	6.1V	6.0V
10	6.1V	6.0V
11	0V	0V
12	0V	0V
13	0V	0V
14	12.1V	12.1V

IC No. / Pin No.	IC801		IC802		IC803	
	PLAY	REC	PLAY	REC	PLAY	REC
IN	19.5V	18.5V	18.3V	18.1V	19.0V	17.9V
GND	0V	0V	0V	0V	0V	0V
OUT	12.0V	12.0V	12.1V	12.1V	5.9V	5.9V

IC502		
Pin	PLAY	REC
IN	4.8V	4.8V
GND	0V	0V
OUT	4.8V	4.8V

Pin	IC801
1	0V
2	5.5V
3	5.2V
4	5.5V
5	0V
6	5.8V
7	0V
8	5.6V
9	11.0V

IC815		
Pin	Stop/ FF, Rew	No Signal
1	1.4V	1.4V
2	1.4V	1.5V
3	0V	10.2V
4	0V	10.2V
5	0V	10.0V
6	0V	10.1V
7	0V	10.1V
8	0V	0V
9	12.1V	12.1V
10	0V	10.0V
11	0V	10.0V
12	0V	10.0V
13	0V	10.2V
14	0V	10.2V
15	1.4V	1.5V
16	1.4V	1.4V

Q101, Q102			Q103		Q104		Q105	
Pin	Stop	Others	Stop	Others	Stop	Others	REC	Others
E	0V	0V	5.5V	0V	0V	0V	0V	0V
C	0V	0V	5.5V	0V	0V	0V	0V	10.2V
B	0.7V	0V	4.8V	0V	0V	0.8V	0.7V	0V

	Q204, 205				Q206, 207				Q208, 209			
Pin	Normal	CrO2	Metal	No Tape	Normal	CrO2	Metal	No Tape	Normal	CrO2	Metal	No Tape
E	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
C	1.4V	1.8V	0V	4.4V	1.4V	0V	3.2V	4.4V	0.0V	1.8V	3.4V	4.4V
B	0V	0V	0.6V	0V	0V	0.7V	0V	0V	0.7V	0V	0V	0V

	Q210		Q211		Q212		Q213	
Pin	REC	Others	REC	Others	REC	Others	REC	Others
E	0.3V	0V	12.1V	12.1V	0V	0V	4.4V	0V
C	9.9V	12.1V	12.0V	0V	3.3V	11.5V	4.4V	0V
B	0.8V	0V	11.2V	11.5V	0.7V	0V	3.7V	0V

	Q214		Q215		Q216	
Pin	REC	Others	REC	Others	REC	Others
E	0V	0V	0V	0V	0V	4.7V
C	0V	0V	0V	0V	0V	4.6V
B	0V	0.7V	0V	0.7V	0V	4.0V

	Q221, 222		Q223, 224	
Pin	Normal/ CrO2	Metal	Normal/ Metal	CrO2
E	0V	0V	0V	0V
C	0V	0V	0V	0V
B	0V	0.6V	0V	0.6V

	Q225,226	
Pin	Metal/ CrO2	Normal
E	0V	0V
C	0V	0V
B	0V	0.7V

	Q507		Q508		Q845		
Pin	Stop	Others	Play	FF/Rew	Others	Play	FF/Rew	Others
E	0V	0V	0V	0V	0V	8.2V	7.7V	8.2V
C	10.6V	0V	8.8V	0V	8.8V	8.3V	8.1V	8.2V
B	0V	0.7V	0V	0.7V	0V	8.8V	8.9V	8.8V

	Q510	Q511	Q512	Q513
Pin	Stop	Stop	Stop	Stop
E	12.1V	12.1V	0V	0V
C	0V	0V	11.5V	11.5V
B	11.5V	11.5V	0V	0V

	Q516			Q518			
Pin	Normal	CrO2	Metal	No Tape	Normal	CrO2	Metal	No Tape
E	0V	0V	0V	0V	0V	0V	0V	0V
C	3.8V	0.1V	3.7V	3.8V	0V	2.9V	0V	0V
B	0V	0.7V	0.0V	0V	0V	0V	0.7V	0V

	Q520				3521			
Pin	Normal	CrO2	Metal	No Tape	Normal	CrO2	Metal	No Tape
E	0V	0V	0V	0V	0V	0V	0V	0V
C	3.8V	3.7V	0.1V	3.8V	4.3V	0.1V	0.1V	0V
B	0V	0V	0.7V	0V	0V	0.7V	0.7V	0V

	Q815		Q816	
Pin	Play/ Rec	Others	Play/ Rec	Others
E	0V	0V	11.6V	0V
C	12.1V	0.1V	12.1V	12.1V
B	0V	0.7V	12.1V	0.1V

	Q107, 108		Q522		
Pin	Normal	CrO2/ Metal	Pin	No Tape	Others
E	0V	0V	E	5.2V	5.1V
C	0V	0V	C	0V	5.0V
B	0V	0.6V	B	5.2V	4.4V

	Q801, 802
Pin	FF, Rew/ Stop / Others
E	0V / 0V
C	0V / 0V
B	0.7V / 0V

	Q109, 110		Q111, 112	
Pin	Mpx-off	Mpx-on	Mpx-off	Mpx-on
E	6.0V	6.0V	6.0V	6.0V
C	5.8V	6.0V	5.8V	6.0V
B	6.0V	6.7V	6.0V	6.7V

Pin	Q113	Q114	Q115
E	0V	0V	6.0V
C	0.7V	6.0V	0.7V
B	0.6V	0.7V	5.4V

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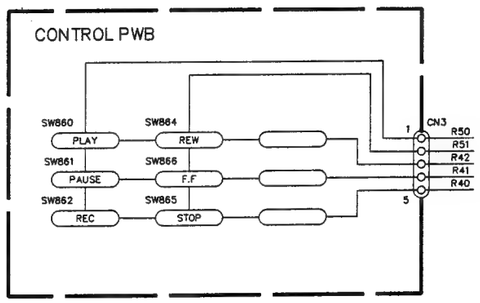
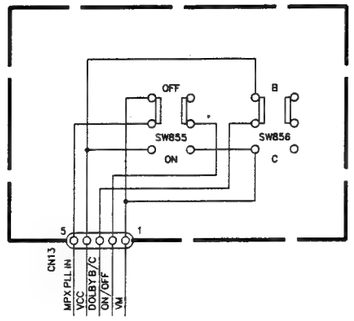
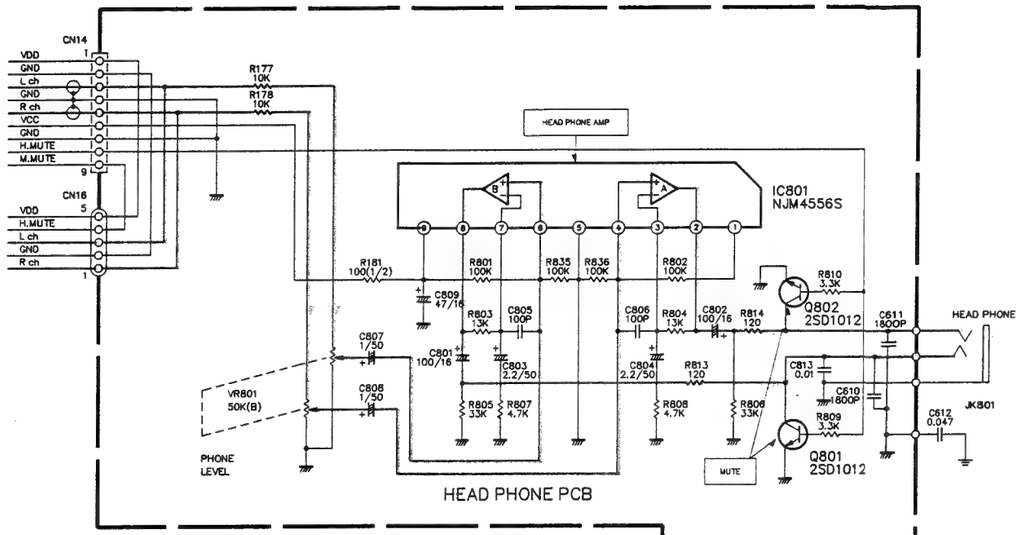
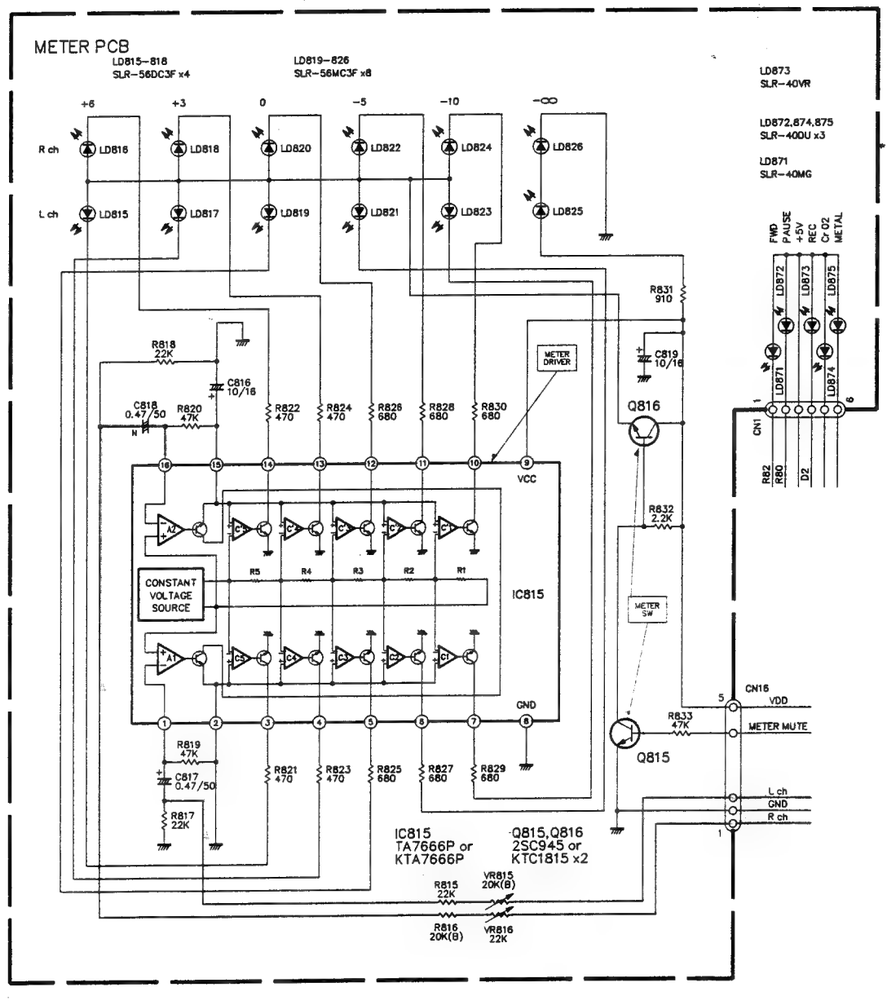
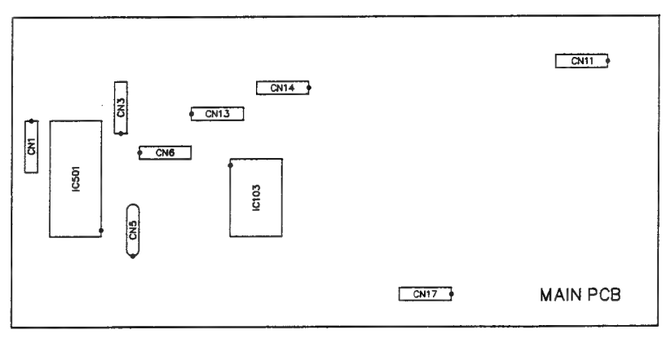
Schematic Diagram (2/2)

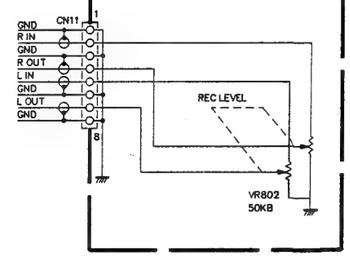


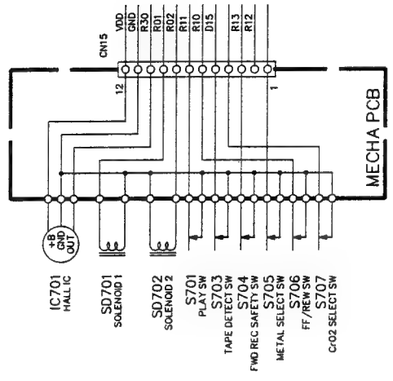


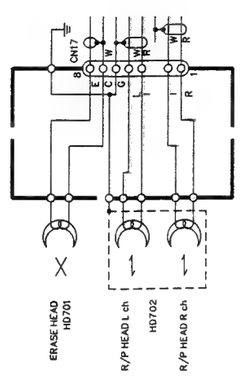


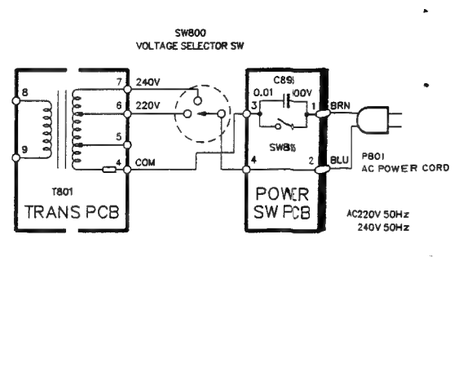












Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.
Capacitor : μF = microfarads, pF = picofarads

Abbreviations

RES. = Resistor	CAP. = Capacitor
C.F. = Carbon Film	ELY. = Electrolytic
M.F. = Metal Film	CER. = Ceramic
M.O. = Metal Oxide Film	MYL. = Mylar
M.P. = Metal Plate	TAN. = Tantalum
CTM. = Cement Resistor	POLY. = Polystyrol
TR. = Transistor	PP. = Polypropylene
TRANS. = Transformer	PLT. = Polyethylene
CP. = Chip	STR. = Styrene
	M-PL. = M-Plastic

Symbol No.	Part No.	Description		
Main P. C. Board				
IC's				
IC101	51E05529S01	μPC1330HA		
IC102	51T73021F02	NJM2068SD		
IC103	51E05539S01	CX20187		
IC104	51E05531S01	NJM4558S (D)		
IC202	51T72929F01	μPC1297CA		
IC203	51E05533S01	TA75558S		
IC205	51E05532S01	NJU4066BD		
IC501	51E05534S01	TV1008 614042SK01		
IC502	51E05535S01	PST523E		
IC601	51E05536S01	MC78M12CT		
IC602	51T94884F04	MC7812CT		
IC603	51E05537S01	MC78M06CT		
Transistors				
Q101	48E05541S01	2SD1012		
Q102	48E05541S01	2SD1012		
Q103	48T65363F02	2SA608		
or	48E04785S03	KTA1015		
Q104	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q105	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q107	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q108	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q109	48E05541S01	2SD1012		
Q110	48E05541S01	2SD1012		
Q111	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q112	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q113	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q114	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q115	48T65363F02	2SA608		
or	48E04785S03	KTA1015		
Q204	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q205	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q206	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q207	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q208	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q209	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q210	48T58776F02	2SD438		
Q211	48T65363F02	2SA608		
or	48E04785S03	KTA1015		
Q212	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q213	48T65363F02	2SA608		
or	48E04785S03	KTA1015		
Q214	48E05541S01	2SD1012		
Q215	48E05541S01	2SD1012		
Q216	48T65363F02	2SA608		
or	48E04785S03	KTA1015		
Q221	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q222	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q223	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q224	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q225	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q226	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q507	48E05541S01	2SD1012		
Q508	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q510	48E05543S01	2SB808		
Q511	48E05543S01	2SB808		

Symbol No.	Part No.	Description		
Q512	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q513	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q518	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q519	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q520	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q521	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q522	48T65363F02	2SA608		
or	48E04785S03	KTA1015		
Q845	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Diodes				
D102	48E04616S01	1N4148		
D103	48E04616S01	1N4148		
D104	48E04616S01	1N4148		
D201	48T40732F08	Zener, RD3.6E		
or	48T52739F15	Zener, HZ3-C3		
D504	48E04616S01	1N4148		
D506	48S40477U02	1N4002		
or	48T44992F01	DS135D		
D508	48S40477U02	1N4002		
or	48T44992F01	DS135D		
D510	48E04616S01	1N4148		
D512	48E04616S01	1N4148		
D521	48T56372F21	Zener, RD4.7E		
or	48T52739F28	Zener, HZ5B-1		
D522	48S40477U02	1N4002		
or	48T44992F01	DS135D		
D523	48S40477U02	1N4002		
or	48T44992F01	DS135D		
D601	48S40477U02	1N4002		
or	48T44992F01	DS135D		
D602	48S40477U02	1N4002		
or	48T44992F01	DS135D		

Symbol No.	Part No.	Description		
D603	48S40477U02	1N4002		
or	48T44992F01	DS135D		
D604	48S40477U02	1N4002		
or	48T44992F01	DS135D		
Coils/Inductors				
L101	24E05523S01	Coil 22mH		
L102	24E05523S01	Coil 22mH		
L203	24E07997S01	Coil 10mH		
L204	24E07997S01	Coil 10mH		
L205	24E05525S01	Coil 6mH		
L206	24E05525S01	Coil 6mH		
L207	24E05526S01	Inductor 12mH		
L208	24E05526S01	Inductor 12mH		
L209	24E05527S01	Coil 1.72mH		
Filters				
FT101	91E05528S01	10PD MPX		
FT102	91E05528S01	10PD MPX		
Jack				
JK101	09E07996S01	RCA Jack		
Resonator				
X501	48E05503S01	Resonator 4MHz		

Symbol No.	Part No.	Description		
Capacitors				
C101	21E04638S02	CER., 470pF		
C102	21E04638S02	CER., 470pF		
C103	21E04734S02	CER., 680pF		
C104	21E04734S02	CER., 680pF		
C105	23E04635S03	ELY., 1 μF/50V		
C106	23E04635S03	ELY., 1 μF/50V		
C107	21E04638S03	CER., 100pF		
C108	21E04638S03	CER., 100pF		
C109	21E04734S10	CER., 100pF		
C110	21E04734S10	CER., 100pF		
C111	08E04735S05	MYL., 0.01 μF		
C112	08E04735S05	MYL., 0.01 μF		
C113	23E04754S04	ELY., 22 μF/16V		
C114	23E04754S04	ELY., 22 μF/16V		
C115	23E04754S02	ELY., 220 μF/16V		
C116	23E04754S02	ELY., 220 μF/16V		
C117	23E04754S02	ELY., 220 μF/16V		
C118	21E05504S02	CER., 0.01 μF		
C119	23E04754S01	ELY., 10 μF/16V		
C120	23E04754S01	ELY., 10 μF/16V		
C121	08E04735S06	MYL., 0.015 μF		
C122	08E04735S06	MYL., 0.015 μF		
C123	23E04754S01	ELY., 47 μF/16V		
C125	21E04734S11	CER., 820pF		
C126	21E04734S11	CER., 820pF		
C131	08E04735S16	MYL., 4700pF		
C132	08E04735S16	MYL., 4700pF		
C133	23E04635S04	ELY., 0.47 μF/50V		
C134	23E04635S04	ELY., 0.47 μF/50V		
C135	08E05500S01	MYL., 0.15 μF		
C136	08E05500S01	MYL., 0.15 μF		
C137	08E04735S06	MYL., 0.015 μF		
C138	08E04735S06	MYL., 0.015 μF		
C139	23E04635S05	ELY., 0.22 μF/50V		
C140	23E04635S05	ELY., 0.22 μF/50V		
C141	08E05500S03	MYL., 0.068 μF		
C142	08E05500S03	MYL., 0.068 μF		
C143	08E05500S05	MYL., 0.047 μF		
C144	08E05500S05	MYL., 0.047 μF		
C145	08E04735S12	MYL., 6800pF		
C146	08E04735S12	MYL., 6800pF		
C147	08E04735S05	MYL., 0.01 μF		
C148	08E04735S05	MYL., 0.01 μF		
C151	23E04754S01	ELY., 10 μF/16V		
C152	23E04635S07	ELY., 4.7 μF/50V		

Symbol No.	Part No.	Description		
C154	23E06052S02	ELY., 330 μF/10V		
C155	08E04735S09	MYL., 0.022 μF		
C156	08E04735S09	MYL., 0.022 μF		
C157	08E04735S10	MYL., 2700pF		
C158	08E04735S10	MYL., 2700pF		
C201	23E04635S08	ELY., 2.2 μF/50V		
C202	23E04635S08	ELY., 2.2 μF/50V		
C203	21E04638S10	CER., 1000pF		
C204	21E04638S10	CER., 1000pF		
C205	21E04734S08	CER., 220pF		
C206	21E04734S08	CER., 220pF		
C207	21E05504S01	CER., 0.047 μF		
C208	21E05504S01	CER., 0.047 μF		
C209	08E04735S09	MYL., 0.022 μF		
C210	08E04735S09	MYL., 0.022 μF		
C211	08E04735S09	MYL., 0.022 μF		
C212	08E04735S09	MYL., 0.022 μF		
C213	21E04638S09	CER., 430pF		
C214	21E04638S09	CER., 430pF		
C215	08E04735S05	MYL., 0.01 μF		
C216	08E04735S05	MYL., 0.01 μF		
C217	23E04754S01	ELY., 10 μF/16V		
C218	21E04734S01	CER., 10pF		
C219	08E05505S01	PP., 2200pF		
C220	08E05505S02	PP., 1500pF		
C221	23E04754S03	ELY., 100 μF/16V		
C222	08E04735S05	MYL., 0.01 μF		
C223	08E04735S12	MYL., 6800pF		
C224	08E04735S05	MYL., 0.01 μF		
C227	21E04734S09	CER., 1000pF		
C228	21E04734S09	CER., 1000pF		
C229	23E04754S01	ELY., 10 μF/16V		
C230	23E04754S01	ELY., 10 μF/16V		
C231	08E05500S06	MYL., 0.082 μF		
C232	08E05500S06	MYL., 0.082 μF		
C233	08E04735S15	MYL., 1800pF		
C234	08E04735S15	MYL., 1800pF		
C235	23E04754S01	ELY., 10 μF/16V		
C236	23E04754S01	ELY., 10 μF/16V		
C237	08E04735S08	MYL., 5600pF		
C238	08E04735S08	MYL., 5600pF		
C241	08E04735S13	MYL., 3300pF		
C242	08E04735S13	MYL., 3300pF		
C243	08E04735S15	MYL., 1800pF		
C244	08E04735S15	MYL., 1800pF		
C245	08E04735S18	MYL., 1500pF		
C246	08E04735S18	MYL., 1500pF		
C247	08E04735S08	MYL., 5600pF		
C248	08E04735S08	MYL., 5600pF		
C249	23E04754S03	ELY., 100 μF/16V		

Symbol No.	Part No.	Description
C250	23E04754S01	ELY., 10 μF/16V
C251	23E04754S04	ELY., 22 μF/16V
C252	23E04754S04	ELY., 22 μF/16V
C261	23E04635S07	ELY., 4.7 μF/50V
C262	23E04635S07	ELY., 4.7 μF/50V
C271	23E04635S03	ELY., 1 μF/50V
C272	23E04635S03	ELY., 1 μF/50V
C277	21E04734S05	CER., 560pF
C278	21E04734S05	CER., 560pF
C279	21E04631S01	CER., 0.01 μF
C301	23E04635S08	ELY., 2.2 μF/50V
C302	23E04635S08	ELY., 2.2 μF/50V
C303	23E04635S08	ELY., 2.2 μF/50V
C304	23E04635S08	ELY., 2.2 μF/50V
C305	23E04754S05	ELY., 47 μF/16V
C306	23E06052S03	ELY., 100 μF/10V
C415	23E04754S01	ELY., 10 μF/16V
C416	23E04754S01	ELY., 10 μF/16V
C501	21E04736S06	CER., 30pF
C502	21E04736S06	CER., 30pF
C503	23E04754S03	ELY., 100 μF/16V
C506	08E04735S11	MYL., 2200pF
C507	23E04754S08	ELY., 33 μF/16V
C508	23E04731S02	ELY., 10 μF/35V
C510	23E04754S05	ELY., 47 μF/16V
C511	23E04754S05	ELY., 47 μF/16V
C601	21E05506S01	CER., 0.047 μF
C603	23E04636S03	ELY., 3300 μF/25V
C604	23E04754S06	ELY., 470 μF/16V
C605	23E04754S07	ELY., 4700 μF/16V
C606	23E06052S03	ELY., 100 μF/10V
C607	21E04631S04	CER., 0.047 μF
C608	23E04635S03	ELY., 1 μF/50V

Resistors

R131	06E05508S03	C.F., 1K ohm 1/2W
R181	06E05508S04	C.F., 100 ohm 1/2W
R224	06E05508S05	C.F., 30 ohm 1/2W
R246	06E05508S02	C.F., 220 ohm 1/2W
R309	06E05508S06	C.F., 180 ohm 1/2W
R545	06E05508S03	C.F., 1K ohm 1/2W
R601	06E05509S01	Fuse 2.2 ohm 1/4W
R602	06E05546S01	Fuse 2.2 ohm 1/2W
R603	06E05509S03	Fuse 13 ohm 1/4W
VR101	18E05510S01	Semi-fixed 500B
or	18E05511S01	Semi-fixed 500B

Symbol No.	Part No.	Description
VR102	18E05510S01	Semi-fixed 500B
or	18E05511S01	Semi-fixed 500B
VR203	18E05510S06	Semi-fixed 30kB
or	18E05511S06	Semi-fixed 30kB
VR204	18E05510S06	Semi-fixed 30kB
or	18E05511S06	Semi-fixed 30kB
VR205	18E05510S02	Semi-fixed 5kB
or	18E05511S02	Semi-fixed 5kB
VR206	18E05510S02	Semi-fixed 5kB
or	18E05511S02	Semi-fixed 5kB
VR207	18E05510S02	Semi-fixed 5kB
or	18E05511S02	Semi-fixed 5kB
VR208	18E05510S02	Semi-fixed 5kB
or	18E05511S02	Semi-fixed 5kB
VR209	18E05510S03	Semi-fixed 50kB
or	18E05511S03	Semi-fixed 50kB
VR210	18E05510S03	Semi-fixed 50kB
or	18E05511S03	Semi-fixed 50kB
VR845	18E05929S01	Semi-fixed 2kB
or	18E05930S01	Semi-fixed 2KB

Power SW P. C. Board

Capacitor/Switch

C895	08E04663S01	CAP., Line, 0.01 μF/400V
SW895	40E04667S01	Switch, Push (Power)

Meter P. C. Board

IC

IC815	51E05538S01	TA7666P
or	51E05547S01	KIA7666P

Symbol No.	Part No.	Description		
Transistors				
Q815	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
Q816	48E05542S01	2SC945		
or	48E04784S04	KTC1815		
LED's				
LD815	48E05928S01	SLR-56DC3F (Orange)		
LD816	48E05928S01	SLR-56DC3F (Orange)		
LD817	48E05928S01	SLR-56DC3F (Orange)		
LD818	48E05928S01	SLR-56DC3F (Orange)		
LD819	48E08062S01	SLR-56MC3F (Green)		
LD820	48E08062S01	SLR-56MC3F (Green)		
LD821	48E08062S01	SLR-56MC3F (Green)		
LD822	48E08062S01	SLR-56MC3F (Green)		
LD823	48E08062S01	SLR-56MC3F (Green)		
LD824	48E08062S01	SLR-56MC3F (Green)		
LD825	48E08062S01	SLR-56MC3F (Green)		
LD826	48E08062S01	SLR-56MC3F (Green)		
LD871	48E05512S01	SLR-40MG3F (Green)		
LD872	48E05513S01	SLR-40DU3F (Orange)		
LD873	48E05514S01	SLR-40VR3F (Red)		
LD874	48E05513S01	SLR-40DU3F (Orange)		
LD875	48E05513S01	SLR-40DU3F (Orange)		

Symbol No.	Part No.	Description		
Capacitors				
C815	23E04635S10	ELY., 10 μF/16V		
C816	23E04635S10	ELY., 10 μF/16V		
C817	23E04635S04	ELY., 0.47 μF/50V		
C818	23E04635S04	ELY., 0.47 μF/50V		
C819	23E04635S10	ELY., 10 μF/16V		
Resistors				
VR815	18E05510S04	Semi-fixed 20kB		
or	18E05511S04	Semi-fixed 20kB		
VR816	18E05510S04	Semi-fixed 20kB		
or	18E05511S04	Semi-fixed 20kB		
Dolby SW P. C. Board				
Switches				
SW855	40E05516S01	Switch, Push (Dolby ON/OFF)		
or	40E05516S02	Switch, Push		
SW856	40E05516S01	Switch, Push (Dolby B/C)		
or	40E05516S02	Switch, Push		
Control P. C. Board				
Switches				
SW860	40E08063S01	Switch, Key (PLAY)		
SW861	40E08063S01	Switch, Key (PAUSE)		
SW862	40E08063S01	Switch, Key (REC)		
SW864	40E08063S01	Switch, Key (REW)		
SW865	40E08063S01	Switch, Key (STOP)		
SW866	40E08063S01	Switch, Key (FF)		

Symbol No.	Part No.	Description		
Headphone P. C. Board				
IC				
IC801	51E05540S01	NJM4556S		
Transistors				
Q801	48E05541S01	2SD1012 (D)		
Q802	48E05541S01	2SD1012 (D)		
Jack				
JK801	09E05518S01	Jack 6.3		
Capacitors				
C801	23E04754S03	ELY., 100 μF/16V		
C802	23E04754S03	ELY., 100 μF/16V		
C803	23E04635S08	ELY., 2.2 μF/50V		
C804	23E04635S08	ELY., 2.2 μF/50V		
C805	21E04638S03	CER., 100pF		
C806	21E04638S03	CER., 100pF		
C807	23E04635S03	ELY., 1 μF/50V		
C808	23E04635S03	ELY., 1 μF/50V		
C809	23E04754S05	ELY., 47 μF/16V		
Resistors				
VR801	18E05520S01	Rotary VR 50KB		
or	18E05520S02	Rotary VR 50KB		
VR802	18E08065S01	Rotary VR 50KB		
or	18E08065S02	Rotary VR 50KB		

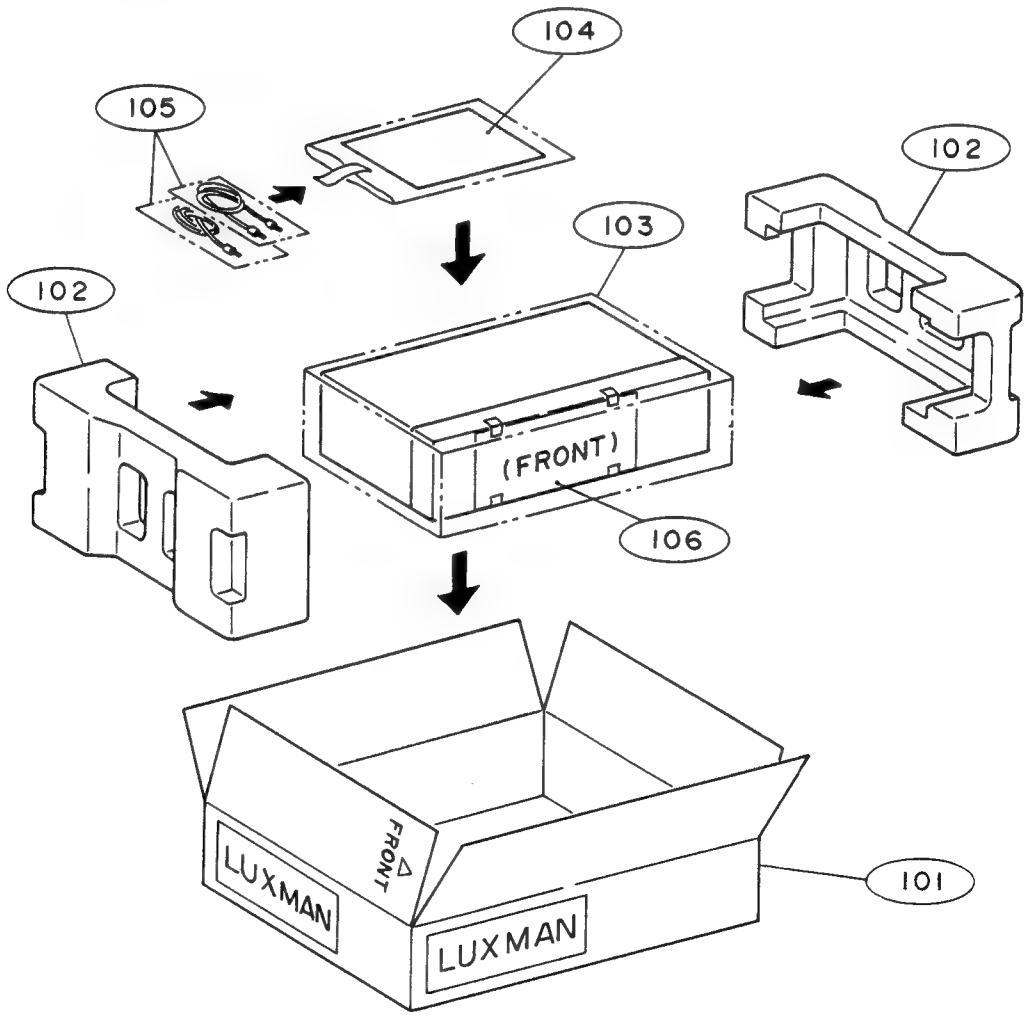
Symbol No.	Part No.	Description		
Miscellaneous				
IC701	51E05436S01	Hall IC LB9050TN for Mechanism		
M701	59E08255S01	Motor		
P801	28E04687S01	AC power Cord		
HD701	88E08253S01	E Head Deck		
HD702	88E08254S01	R/P Head, Deck		
S701	40E05434S01	Switch, Leaf, (PLAY) for Mechanism		
S703	40E05435S01	Switch, Leaf, (Tape Detect) for Mechanism		
S704	40E05433S01	Switch, Leaf, (FWD REC Safety) for Mechanism		
S705	40E05433S01	Switch, Leaf (Metal Select) for Mechanism		
S706	40E05435S01	Switch, Leaf, (FF/ REWIND) for Mechanism		
S707	40E05433S01	Switch, Leaf, (CrO_2 Select) for Mechanism		
SD701	01E05399S01	Solenoid 1 for Mechanism		
SD702	01E05399S01	Solenoid 2 for Mechanism		
T801	25E05931S01	TRANS., Power EI54 120/220/240V		
SW800	40E08064S01	Switch,Voltage Selector		

Packing Assembly Parts List

Symbol No.		Part No.	Description		
101		56E08233S01	Carton,Packing (IND)		
102		56E05497S01	Tray, Packing (L, R)		
103		56E05498S01	Bag, High Polyester		
104		68P96552F73	Owner's Manual		
105		28E04778S02	Cord, Partch		

Symbol No.		Part No.	Description		
106		56E08308S01	PKG, Front Flame		

Packing Method View



Cabinet Assembly Parts List

Note: The parts without part number are not supplied.

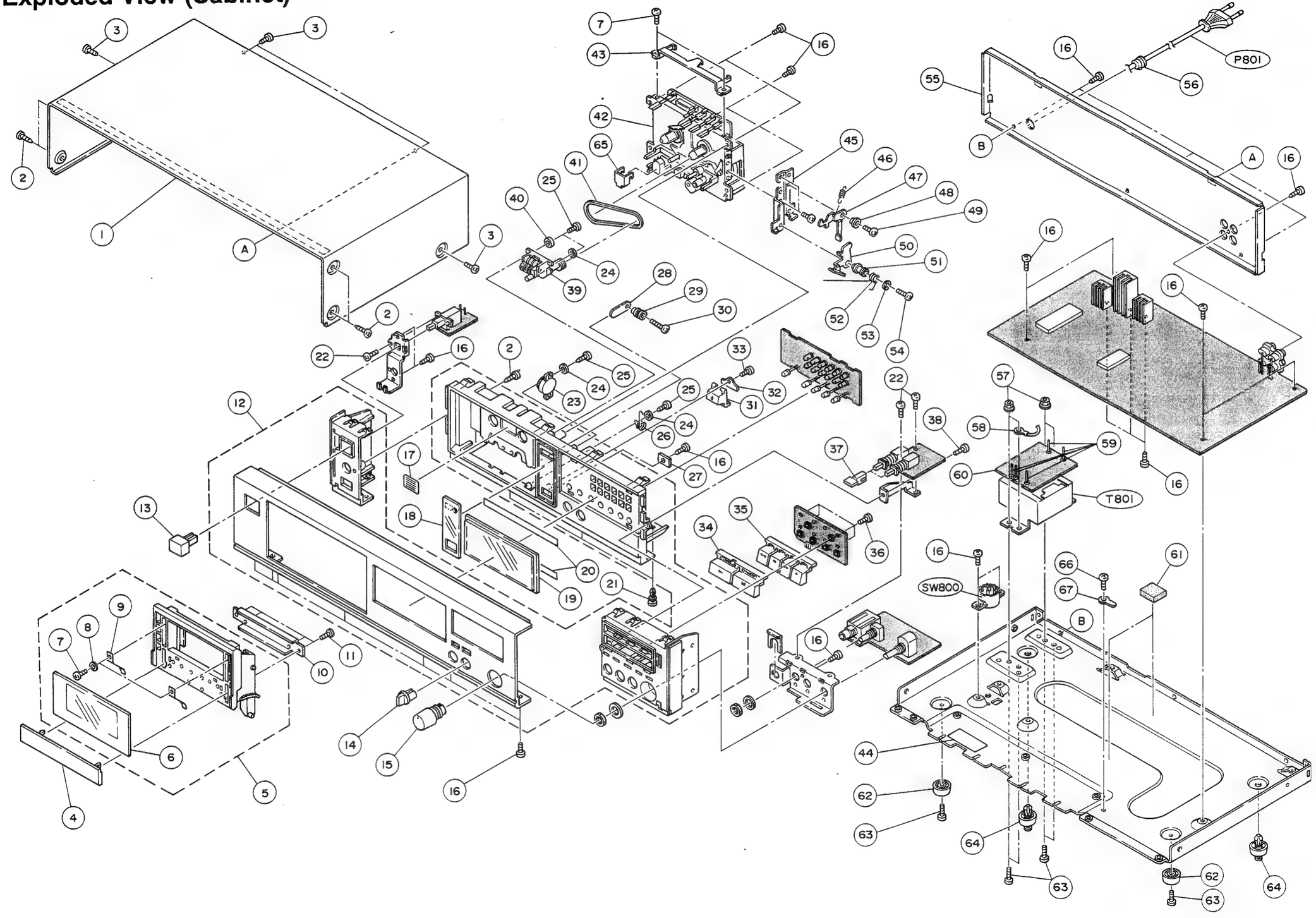
Symbol No.	Index	Part No.	Description
1	2-A	15E08074S01	Cabinet, Top
2		03E04701S04	Screw, Taptite (M3 x 10)
3		03E04702S09	Screw, Taptite (M3 x 6)
4	5-A	64E08256S01	Plate, Door
5	5-B	15E08071S01	Assy., Door
6	4-B	64E08257S01	Window, Door
7		03E05066S02	Screw, Taptite (M2 x 5)
8	4-A	04E05465S01	Washer, (M2)
9		41E05448S01	Spring, Leaf
10	4-B	07E05451S01	Cover
11	4-C	03E04701S03	Screw, Taptite (M2.6 x 8)
12	3-B	64E08068S01	Assy., Panel Front
13	3-B	36E04673S01	Knob, Power
14	4-C	36E05461S01	Knob, Level
15	5-C	36E04677S01	Knob, Rec Level
16		03E04701S01	Screw, Taptite (M3 x 8)
17	3-C	64E05445S01	Mirror, Cassette
18	3-C	64E08258S01	Plate, Indication
19	4-D	64E08259S01	Window
20	4-D	75E08260S01	Cushion
21	4-D	05E04709S02	Rivet, Nylon
22		03E04775S02	Screw, Taptite (M3 x 6)
23	3-D	01E08072S01	Assy., Damper
24		04E05467S01	Washer, (M2.6)
25		03E04701S06	Screw, Taptite (M2.6 x 6)
26	3-D	41E05452S01	Spring, Torsion
27	3-D	07E05455S01	Holder, Door
28	2-D	07E05486S01	Slider
29	2-D	43E05488S01	Spacer
30	2-D	03E05490S02	Screw, (M2 x 10)
31	3-E	36E05468S02	Knob, Eject
32	3-E	07E08261S01	Holder
33	3-E	03E05066S04	Screw, Taptite (M2.6 x 6)
34	3-D	36E08070S01	Knob, Play/Pause
35	3-E	36E06178S01	Knob, Rew/Stop/FF/Rec
36	4-E	03E05066S03	Screw, Taptite (M2 x 8)
37	3-E	36E04672S01	Knob, Dolby
38	3-F	03E04701S04	Screw, Taptite (M3 x 10)
39	2-D	72E05466S01	Counter
40	2-C	43E07210S01	Coller
41	2-D	42E05491S01	Belt
42	1-D	81E08066S01	Assy., Tape, Mechanism
43	1-D	07E08262S01	Holder
44	5-E	14E08306S01	Sheet, Insulation
45	2-E	07E05480S01	Holder, Base
46	2-E	41E05481S01	Spring, Coil
47	2-E	07E05483S01	Lever, Door Look
48	2-F	46E05487S01	Stud
49	2-F	03E05490S01	Screw (M2 x 4)
50	2-E	07E05485S01	Lever, Eject
51	2-F	43E05489S01	Spacer
52	2-E	41E05493S01	Spring, Torsion
53	3-E	04E05494S01	E-ring
54	3-E	03E05490S03	Screw (M2 x 12)
● 55	1-F	15E08263S01	Panel, Back
○ 55	1-F	15E08264S01	Panel, Back
56	1-G	43E04688S01	Bushing, Cord
57	3-F	02E05471S01	Nut, Flange
58	3-F	29E04693S01	Lug
59	3-F	29E08100S01	Terminal, Pin
60	3-F	84E08281S01	PCB 31
61	4-G	75E05472S01	Cution
62		75E04521S01	Foot, Front
63		03E04702S06	Screw, Taptite (M4 x10)
64		75E04678S01	Foot, Back
65	2-D	07E08307S01	Shield, Cover
66	4-F	03E08004S01	Screw, Taptite (M3 x 6)
67	4-F	29E04693S01	Lug

Note ●: For West Germany model only (AD)

○: For General Foreign model only (EK)

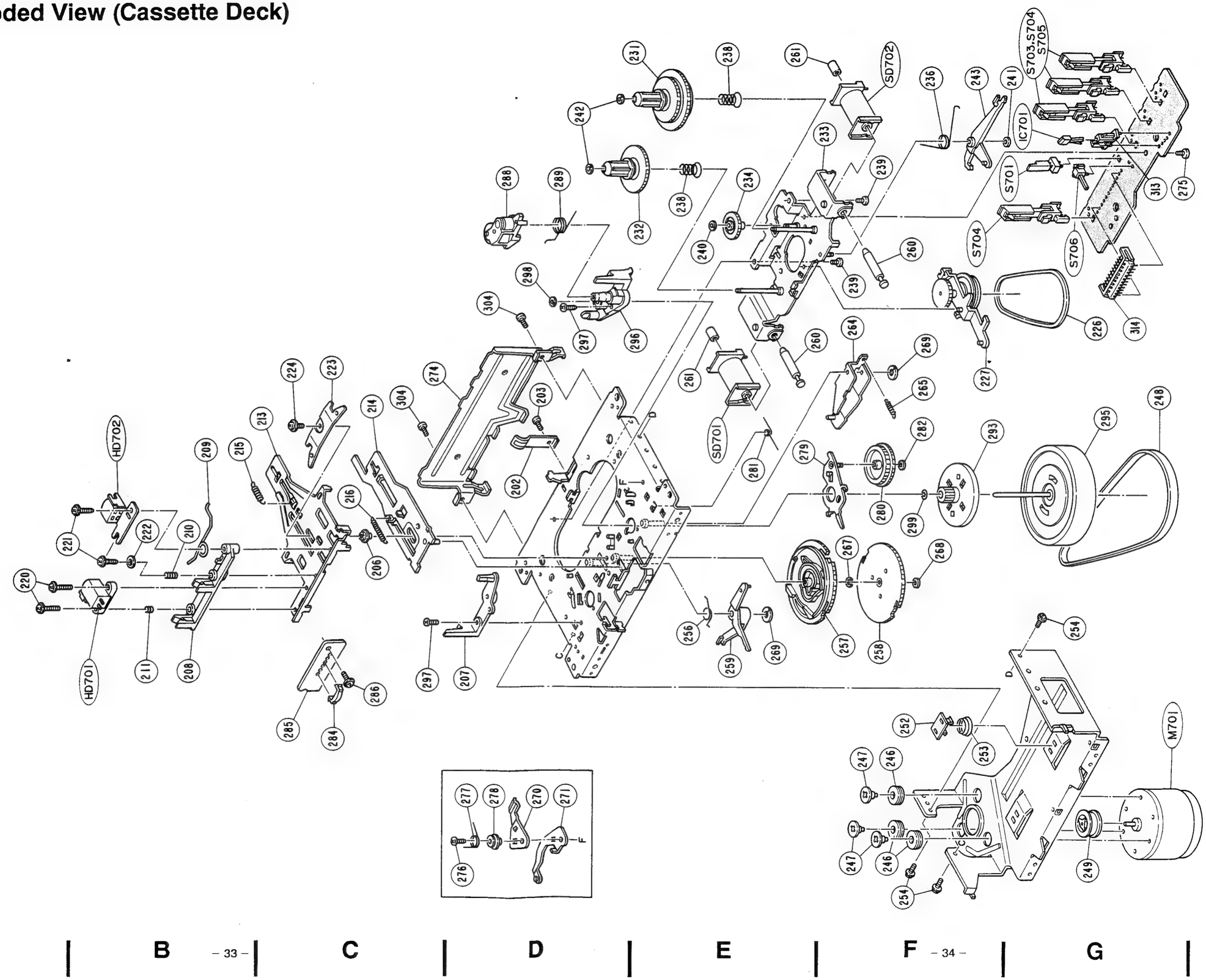
Others Common

Exploded View (Cabinet)



K-92 K-92

Exploded View (Cassette Deck)



Cassette Deck Assembly Parts List

Note: The parts without part number are not supplied.

Symbol No.	Index	Part No.	Description		
202	3-D	41E05346S01	Spring, Pack		
203	3-D	03E05347S01	Screw, Tapping, (M2 x 3)		
206	4-C	43E08234S01	Collar, Panel (A)		
207	4-D	45E08238S01	Guide, Tape		
208	4-B	01E08239S01	Head, Base		
209	3-B	41E08242S01	Spring, Pinch Roller		
210	3-B	41E08243S01	Spring, Azimuth		
211	4-B	41E08244S01	Spring, EH		
213	3-C	15E08248S01	Head, Panel (A)		
214	3-C	15E05357S01	Head, Panel (B)		
215	3-B	41E08245S01	Spring, RC		
216	3-C	41E08246S01	Spring, Panel		
220	4-A	03E08236S01	Screw, (M2 x 11)		
221	3-B	03E08237S01	Screw, (M2 x9.5)		
222	3-B	04E08249S01	Washer, BS (M2.1)		
223	3-C	41E08247S01	Spring, Plate		
224	3-C	03E05366S01	Screw, Tapping (M2 x 5)		
226	2-G	42E05368S01	RF, Belt		
227	3-F	01E08240S01	Ass'y, RF Clutch		
231	1-E	01E05370S01	Ass'y, T Reel (F)		
232	2-E	01E08241S01	Ass'y, S Reel		
233	2-F	01E05372S01	Ass'y, Reel Base		
234	2-E	44E05373S01	Gear, FF		
236	1-F	41E05374S01	Spring, FR Trigger Arm		
238		41E05375S01	Spring, (R) B.T		
239	2-F	03E05376S01	Screw, Tapping (M2 x 4)		
240	2-E	04E05377S01	P Washer, (M1.2)		
241	1-G	04E08250S01	P Washer, (M2.1)		
242	1-D	04E05379S01	HL Washer, (M1.4)		
243	1-F	45E05380S01	Arm, RF Trigger		
246	5-F	75E05381S01	Motor, Rubber		
247	5-F	03E05382S01	Screw, Motor Collar		
248	3-G	42E08252S01	Belt, Main		
249	5-G	49E05384S01	Pulley, Motor		
252	4-F	07E05386S01	FL Patch, Plate		

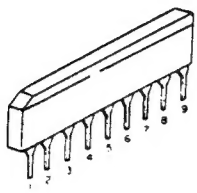
Symbol No.	Index	Part No.	Description		
253	5-F	41E05387S01	Spring, Damper		
254		03E05388S01	Screw, Tams (M2 x 4)		
256	4-E	41E05389S01	Spring, M Trigger		
257	4-F	44E05390S01	M Gear		
258	4-F	44E05391S01	Gear, RF Cam		
259	4-E	45E05392S01	Arm, M Trigger		
260		47E05393S01	Plunger		
261		43E05394S01	Holder, Plunger		
264	2-F	01E05397S01	Ass'y, P Kick Lever		
265	3-F	41E05398S01	Spring, PK Lever		
267	4-F	04E05400S01	E Ring ø2.0		
268	4-F	04E05401S01	HL Washer, (M1.55)		
269		04E05378S01	HL Washer, (M2.1)		
270	5-D	07E05441S01	E Stopper A (F)		
271	5-D	07E05442S01	E Stopper B (F)		
274	3-C	15E05405S01	Protector, SW		
275	2-G	03E05406S01	Screw, (M2 x 5)		
276	5-D	03E08235S01	Screw, (M2 x 5)		
277	5-D	41E05408S01	Spring, E Stopper		
278	5-D	43E05409S01	Collar, E Stopper		
279	3-E	01E05410S01	Ass'y, T Gear Arm		
280	3-F	44E08251S01	T Gear		
281	3-E	41E05412S01	Spring, TG Arm		
282	3-F	04E05377S01	P Washer, (M1.2)		
284	4-C	43E05355S01	Wire, Clamp		
285	4-C	84E05439S01	Relay, Board		
286	4-C	03E05365S01	Screw, (M2 x 5)		
288	2-D	01E05416S01	Ass'y, Pinch Roller Arm (F)		
289	2-D	41E05417S01	Spring, P Arm		
293	3-F	44E05420S01	Gear, FL		
295	3-G	49E05422S01	Ass'y Flywheel (F)		
296	3-D	01E05423S01	Ass'y FL Metal, (F)		
297		03E05424S01	Screw, (M2 x 6)		
298	2-D	04E05425S01	Washer (M2.1) (Nylon)		
299	3-F	04E08282S01	HL Washer (M2.3)		

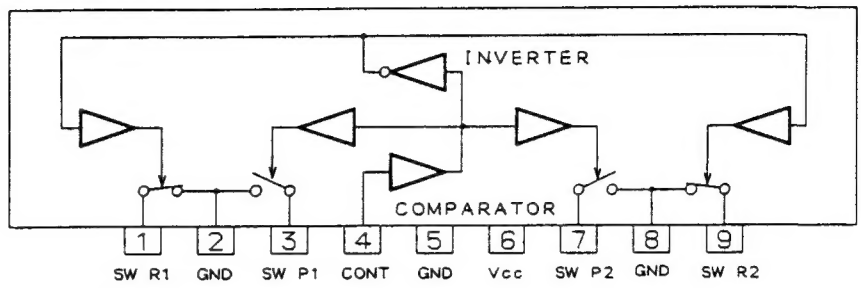
Symbol No.	Index	Part No.	Description		
304		03E05376S01	Screw, Tapping (M2 x 4)		
313	2-G	48E05437S01	IC, Protector		
314	2-G	09E05443S01	Connector, TXL-P 12PM1		

Symbol No.	Index	Part No.	Description		

Semi-Conductor Lead Identifications

μPC1330HA : IC101





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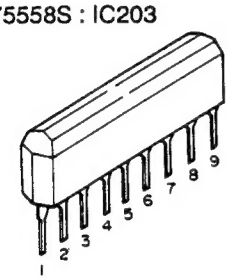
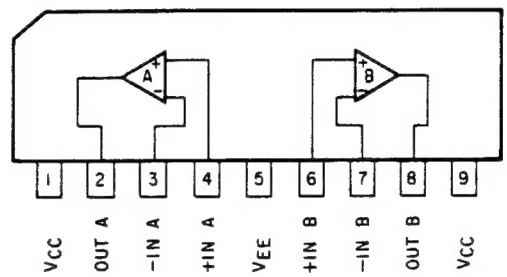
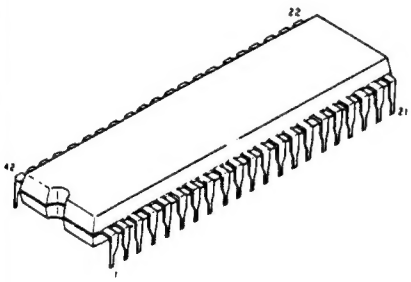
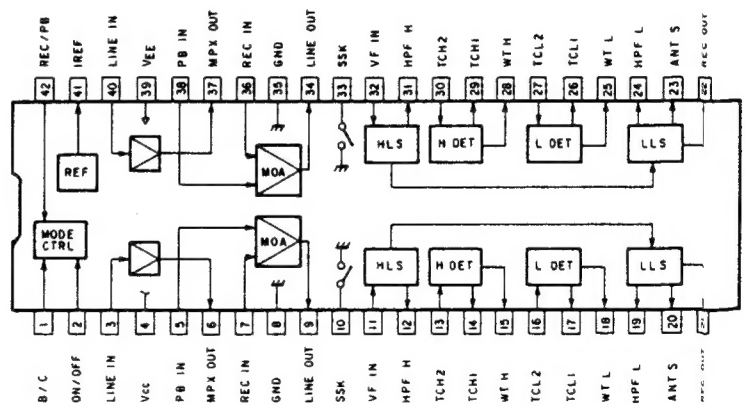




CX20187 : IC103





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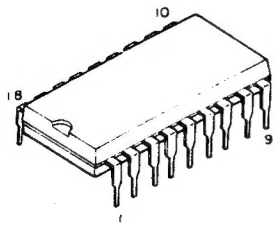
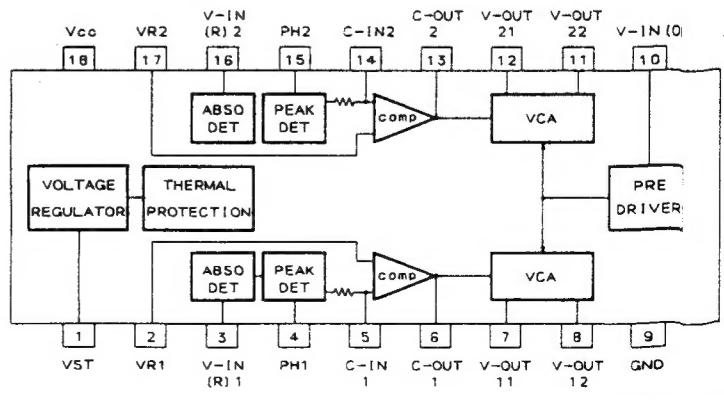
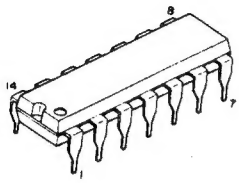
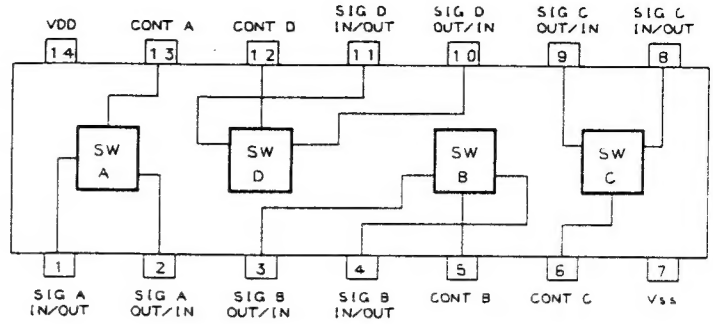




NJU4066B : IC205





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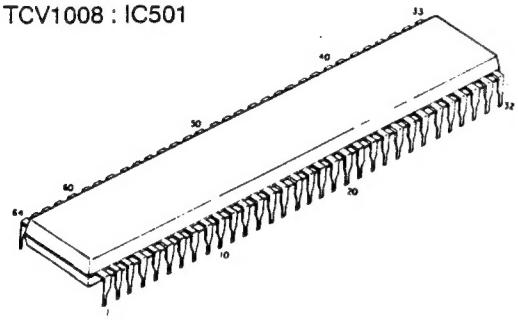
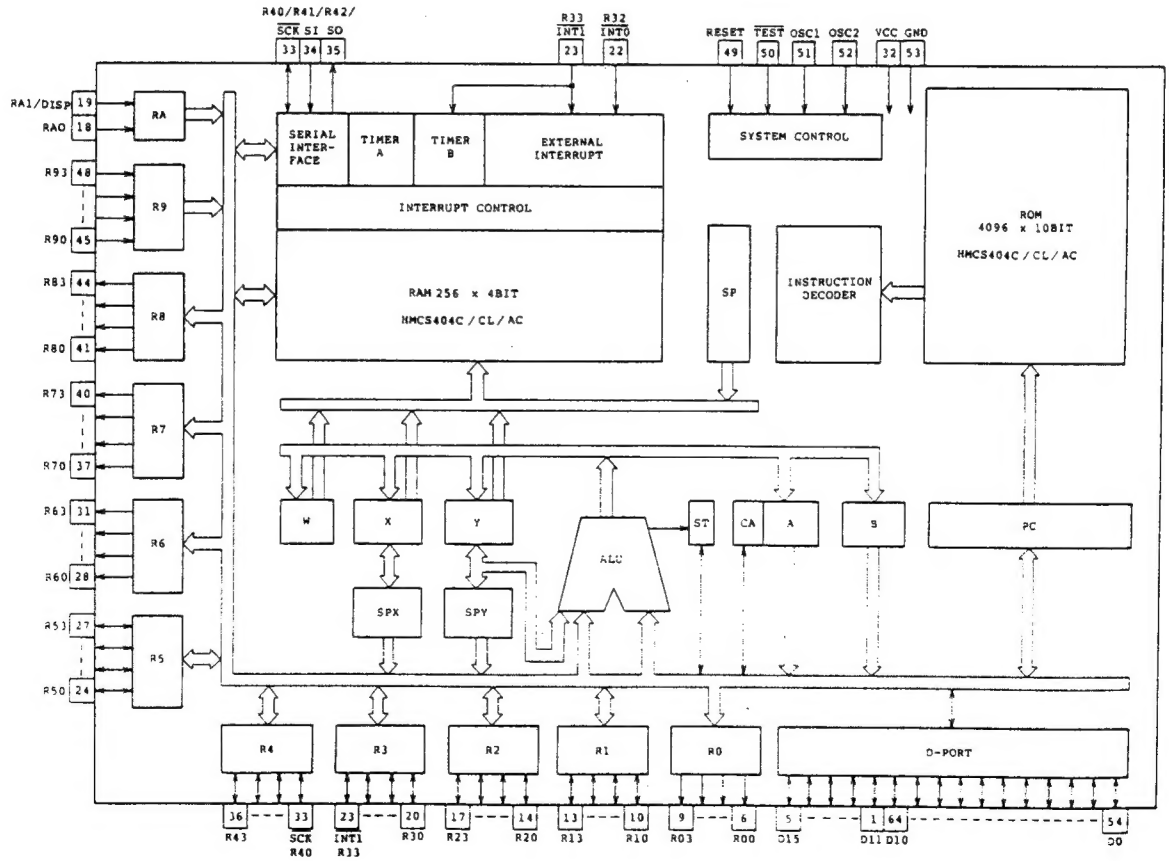
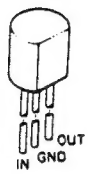
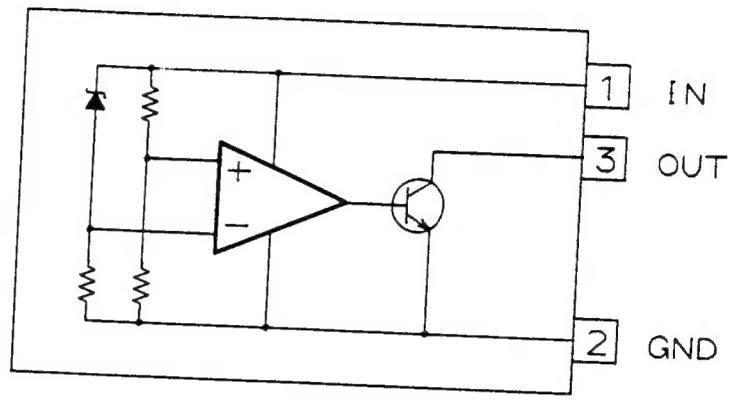




PST523E : IC502

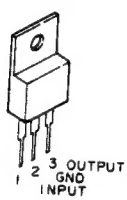


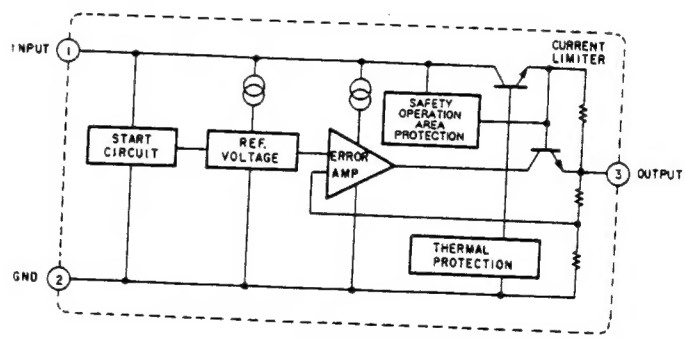


MC7812CT : IC602

MC78M12CT : IC601

MC78M06CT : IC603





TA7666P : IC815